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TABLE OF CONTENTS.

PERSONALS 1
ENGINEERING SOCIETIES 1
Coming Technical Meetings 1
NEW PUBLICATIONS 1
Trade Publications 2
CONSTRUCTION NEWS:
Condensed List on Contracts Pending 2
Railways 2
Street and Electric Railways 2
Electric Light and Power 3
Bridges 3
Buildings 4
Water-Works 4
Irrigation 5
Sewerage 5
Garbage Disposal and Street Cleaning 6
Streets and Roads 6
Manufacturing Plants 6
Mining 6
Miscellaneous Contracts 7
Contract Prices 7
INDUSTRIAL NOTES 8

PERSONALS.

Mr. Martin Ley, contractor, of Allegheny, Pa., died June 26, aged 69.

Mr. William H. Bostwick has been elected Village Engineer of Edgewater (Staten Island), N. Y.

Mr. Alfred T. Jones, Resident Engineer of the Erie Canal, at Rochester, N. Y., has resigned.

Mr. J. A. Long has been appointed Receiver of the Falls Rivet & Machine Co., of Cuyahoga Falls, O.

Col. S. M. Seymour, civil engineer, of Danville, N. Y., died June 21, aged 80. His death was due to apoplexy.

Mr. William Van Keuren, contractor, of Jersey City, N. J., died June 22. He was a Police Commissioner of that city in 1875.

Mr. William Y. Levengood, contractor and builder, of Pottstown, Pa., was killed by falling with a scaffold at Glasgow, Pa.

Mr. J. Portuondo, civil engineer, of New York city, is now in Cuba holding a commission as Captain in the insurgent army.

Mr. Levi Bibbins, of Troy, N. Y., has been appointed Superintendent of the Rolling Mill Department of the U. S. Car Co.

Mr. Horace G. Burt has succeeded Mr. Edwin W. Winter as General Manager of the Chicago, St. Paul, Minneapolis & Omaha Ry.

Dr. Thomas C. Mendenhall has been appointed by the Governor to succeed Mr. George A. Perkins as chairman of the Highway Commission of Massachusetts.

Mr. John Cotter, Supervisor of Track of the Cleveland, Cincinnati, Chicago & St. Louis Ry., at Bellefontaine, O., has resigned to accept a position with the Grand Trunk Ry.

Chief Engineers George F. Kutz and James W. Thompson, of the Engineers' Corps, U. S. Navy, have been retired on their own applications on account of 40 years' service.

Mr. Robert H. Berdell, at one time President of the old New York & Erie R. R., which extended from New York city to Goshen, N. Y., died last week at his home in the former place.

Mr. Edward Shamp, of Fresno, Cal., has been appointed General Superintendent of the Maricopa & Phoenix R. R., with headquarters at Phoenix, Ariz., to succeed Mr. G. H. Honshell, resigned.

Mr. Anthony Victorin, M. Am. Soc. C. E., Constructing Engineer of the Watervliet Arsenal, West Troy, N. Y., has been transferred to the government proving grounds at Sandy Hook, N. J.

Mr. Roland W. Libby, civil engineer, of Saco, Me., has formed a partnership with Mr. W. S. Dennett, to fill the vacancy caused by the death of Mr. Harry Jose, as noted in our issue of June 18.

Mr. J. W. Lawson, civil engineer, of Vancouver, B. C., died June 17. He was born in England and had followed his profession in that country and Wales. He was the first City Engineer of Vancouver.

Mr. Edwin W. Winter, General Manager of the Chicago, St. Paul, Minneapolis & Omaha Ry., has been selected by the reorganization committee of the Northern Pacific R. R., to succeed Mr. Brayton Ives as President.

Mr. Henry G. Morse, President of the Edgemoor Iron Co., of Wilmington, Del., has resigned and will accept the office of President of the Harlan & Hollingsworth Co., of the same city, to succeed Mr. J. Taylor Gause, resigned.

Mr. George R. Kurrie, Resident Engineer of the Shiffler Bridge Co., Pittsburg, Pa., has resigned and has been appointed Sales Agent of the Pottsville Iron & Steel Co., with an office at 302-303 Harrison Bldg., Philadelphia, Pa.

The Water-Works Commission, of Cincinnati, O., has been appointed by the governor and will consist of Hon. August Hermann, Col. Leopold Markbreit, Capt. C. M. Holloway, Dr. T. W. Graydon and Mr. Maurice J. Freiberg.

Mr. W. W. Conner, hydraulic engineer, has severed his connection with the Great Falls Water Power & Townsite Co., of Great Falls, Mont., and Mr. Andrew J. Rinker, for 20 years City Engineer of Minneapolis, Minn., has succeeded him as head of the company.

Mr. George F. Bidwell, Superintendent of the Ashland Division of the Chicago & Northwestern Ry., has been appointed General Manager of the Fremont, Elkhorn & Missouri Valley R. R., and the Sioux City & Pacific R. R., to succeed Mr. Horace G. Burt, resigned.

Mr. Sheng, late Customs Taotai, has been appointed Director-General of the Imperial railways of China, by the Emperor. He is also the head of the Chinese Merchant Steam Navigation Co., and of the Imperial Chinese Telegraphs, besides being largely interested in cotton mills and other enterprises conducted on Western plans.

Col. Silas Morris Seymour, formerly Chief Engineer of the Chicago & Northwestern Ry., died at Dansville, N. Y., June 21. He was born in Stillwater, N. Y., Jan. 20, 1816. His first important work was on the preliminary surveys for the Erie R. R. in 1834 and he constructed many important railroads and bridges throughout the country.

Hon. Ambrose S. Beverly, President of the Boston & Lockport Block Co., of Lockport, N. Y., died June 24, aged 70 years. He was born at Syracuse, N. Y., and was Mayor of Lockport in 1881. At the time of his death he also held the offices of President of the Lockport Hydraulic Co. and Vice-President and Treasurer of the Lockport Pulp Co.

Mr. A. Lincoln Hyde, Assoc. M. Am. Soc. C. E., who has been engaged for the past ten years in bridge work and for two years has been junior partner of The Osborn Co., civil engineers, will open an office in the New England Building, Cleveland, O., giving his especial attention to design and inspection of bridges, manufacturing plants and mill building construction.

Mr. Solomon Haas has been elected President of the Sloss Iron & Steel Co., of Birmingham, Ala., to succeed the late Thomas Seddon, whose death was noted in our issue of May 14. Mr. Haas was for years Traffic Manager of the Associated Railroads of Virginia and the Carolinas and afterwards held a similar position with the Southern Ry.

Mr. Oscar Knapp has been appointed Water Purveyor of Brooklyn, N. Y., to succeed Mr. Peter Milne, whose promotion as Chief Engineer of the Department of City Works was noted in our issue of May 21. Mr. Knapp is a native of Alsace, and came to America when quite young. He is a graduate of the College of the City of New York, and has taken a three years' course in engineering in Paris.

Mr. Emile Low, M. Am. Soc. C. E., Engineer of the Mathieson Alkali Works, at Saltville, Va., has been engaged to relocate the boundary line between Washington and Smyth counties, Virginia, owing to a controversy over the line. The portion in dispute begins at the Norfolk & Western R. R., near Chilhowie, and crosses Walkers Mt., Chestnut Ridge, North fork of the Holsten R. and Little and Red Rock Mts. to Clinch Mt.

Mr. John Robertson, of Brooklyn, N. Y., died June 27, aged 88. He was born in Scotland and went to India at the age of 19, as an employee of the East India Co., remaining there ten years. In 1842 he settled in Canada, leaving there in turn to locate in Brooklyn, N. Y., as a mechanical engineer. He established the Tubal Cain Iron Works in that city in 1863, and was the inventor of a number of machines. He retired from active business several years ago.

Gen. Rufus L. Howard, of Buffalo, N. Y., died June 27. He was born in Litchfield, N. Y., Oct. 30, 1818, and when 15 years of age entered a country store in Schuyler, N. Y. In 1839 he went to Buffalo and entered the employ of H. C. Atwater & Co., ship chandlers, and in 1841 became a member of the firm. In 1850 the name was changed to Howard, Newman & Co. Mr. Howard sold out his interest in 1853 and began the manufacture of the Ketchum mowing machine. This business grew into the Howard Iron Works, manufacturing general machinery. He served with credit in the Union Army during the civil war and was promoted to Major-General in 1865.

Mr. Theodore Delevan Wilson, formerly Chief Constructor U. S. Navy, died of apoplexy at the Navy Yard, Boston, Mass., June 29. He was born in Brooklyn, N. Y., May 11, 1840, and served an apprenticeship as a shipwright in the Brooklyn Navy Yard. When the war broke out he enlisted in the volunteer service and upon the return of his regiment in August, 1861, he was appointed a carpenter in the navy and served on the U. S. S. "Cambridge," of the North Atlantic blockading squadron until 1863. In December, 1863, he was ordered to New York on special duty and directed the building, repairing and alteration of many vessels. In 1866 he was appointed Assistant Naval Constructor and placed in charge of the Construction Department of the Navy Yard, Pensacola, Fla. In 1867 he was ordered to the Navy Yard at Philadelphia, where he remained until July 3, 1869, when he was detailed as Instructor in Shipbuilding and Naval Architecture at the Naval Academy, Annapolis, Md. He remained there for four years, and in the summer of 1870 was sent by the department on special duty to England and France. On July 6, 1873, he was ordered to the Navy Yard at Washington, D. C. He was commissioned a Naval Constructor at the same time, and in 1874 was ordered to the Portsmouth Navy Yard. During his service there he was appointed a member of the first Naval Advisory Board, and in 1882 he became Chief Constructor of the Navy and held that office until July, 1891, when he resigned on account of ill health with two years' sick leave. Mr. Wilson was the first American to be elected a member of the English Institute of Naval Architecture and is the author of the text book on shipbuilding used at the Naval Academy.

Maj.-Gen. Gustavus Woodson Smith died at his home in New York city, June 23. He was born in 1822 in Scott county, Ky., and graduated from West Point in 1842. For the next two years he served as Assistant Engineer in the construction of the fortifications in the harbor of New London, Conn. In 1845 he was promoted to the full rank of Second Lieutenant of Engineers while holding the position of Assistant Professor of Engineering at the U. S. Military Academy. In 1846 he resigned from this position to join General Scott's division in the war against Mexico. There he gained distinction for his engineering work and was in command of a force of sappers, miners and pontooniers from March, 1847 to May, 1848. In 1849 he was appointed Professor of Engineering at West Point and held this position until 1854, when he went to New Orleans, La., and was engaged in the construction of the Marine Hospital. He returned to New York in 1856 and became the General Engineer of the Trenton Iron Works. In 1858 he was appointed a Street Commissioner of New York city by Mayor Tiemann, and held this office until 1861, when he entered the Confederate army at Richmond, Va., and was commissioned Major-General, with command of a division of the army of Northern Virginia. At the end of the war he was made Superintendent of the Southwest Iron Works, at Chattanooga, Tenn., and remained in this position until 1869. He returned to New York city once more in 1876 and has resided here ever since, being engaged in private business.

ENGINEERING SOCIETIES.

COMING TECHNICAL MEETINGS.

TECHNICAL SOCIETY OF THE PACIFIC COAST.
July 3. Secy., O. H. Von Geldern, 819 Market St., San Francisco.

ENGINEERS' CLUB OF MINNEAPOLIS.
July 20. Secy., E. Nexon, Kasota Block.

WESTERN FOUNDRYMEN'S ASSOCIATION. — The regular meeting was held at the Great Northern Hotel, Chicago, June 17, and a paper on "Power of Blast Penetration and Improvements in Center Blasts for Cupolas," was read by Mr. Thos. D. West. Mr. West described a number of center blast fixtures for cupolas, and argued the advantages and economy of this system over the ordinary side blast system. Briefly stated the advantages claimed for center blast were: (1) Reduction of fuel from one to eight to one to twelve; (2) less wear of the lining; (3) increased speed of melting; (4) less wastage of chilled iron and shot, and (5) less absorption of sulphur by the iron. There was a long discussion and the general opinion of the members seemed to be that the paper did not present the necessary facts to bear out its conclusions, but that the subject was one which could be studied profitably.

NEW PUBLICATIONS.

THE NEBRASKA IRRIGATION ANNUAL.—A Suggestive Hand Book for the Progressive Citizen, Farmer and Business Man, Containing a Report of the Third Annual Convention of the Nebraska State Irrigation Association, with an Appendix of Valuable Tables and Special Articles. A. G. Wolfenbarger, President Nebraska State Irrigation Association. 8vo.; paper; pp. 210; illustrations. Cloth, $1; paper, 25 cts. Address the President.

This is the first annual issued by the association. The above quotation from the title page indicates the contents of the volume pretty well. It contains much information regarding the progress and prospects of irrigation in Nebraska and some matter on irrigation in general. The illustrations are nearly all half-tone portraits of men connected with irrigation, mostly, if not wholly, in Nebraska.

NEW JERSEY SANITARY ASSOCIATION.—Proceedings of the Convention Held at Atlantic City, N. J., Dec. 6 and 7, 1895. Prof. J. Madison Watson, Secretary, Elizabeth, N. J. 8vo.; paper; pp. 136. Address the Secretary.

Among the papers in this report are the following on engineering subjects: "Governmental Methods for Preventing the Pollution of Streams," by Mr. C. P. Bassett, M. Am. Soc. C. E.; "Artesian Sources of Public Water Supply in New Jersey," by Messrs. J. C. Smock, State Geologist, Lewis Woolman and Thos K. Reed; "Purification of Water Supplies by Filtration," by Mr. M. N. Baker, of the editorial staff of this journal; "Disposal of Garbage," by Messrs W. G. Hoopes and W. C. R. Colquohon, the former describing the Smith garbage furnace at Atlantic City, N. J., and the latter the Brown furnace at Wilmington, Del.

MUNICIPAL OWNERSHIP OF STREET CAR LINES AND ELECTRIC LIGHTING PLANTS. 8vo.; pamph.; pp. 15; 1 ct. each or 75 cts. per 100, postage or expressage extra; C. F. Taylor, M. D., 1520 Chestnut St., Philadelphia, Pa.

This little pamphlet is intended for distribution by those desiring to arouse public interest in favor of municipal ownership and operation of street car lines and electric lighting plants. A large portion of it is taken from papers by Prof. Frank Parsons, published in the "Arena," of Boston. One hardly expects to find entirely unprejudiced and uncolored statements in a political pamphlet, and this, we judge from cursory examination, goes about as far in one direction as the opponents of municipal ownership or control go in the other direction.

While there are many things in the pamphlet which could be criticised, many of the points brought out by it are excellent and ought to be better realized by the public at large.

TRADE PUBLICATIONS.

THE NEW YORK BAG CARRIER FOR STREET SWEEPINGS.—Geo. Aymar Taber, Agent, 67 Irving Place, New York. Oblong; 6½ x 5 ins.; pp. 6; illustrations.

This pamphlet describes a light iron frame, mounted on two wheels, for carrying bags to receive street sweepings as collected by hand. When a bag is full it is tied up and placed in some convenient place to await the collector, instead of having the sweepings left in a pile to be scattered by vehicles and wind.

MANUAL OF SURVEYING INSTRUMENTS.—The A. Lietz Co., San Francisco, Cal. Paper; 9⅛ x 5⅞ ins.; pp. 200; illustrated; 50 cts.

This is a revised edition of the company's manual, with catalogue and price list. The manual proper, which occupies 126 pages, includes a description of the factory, and of the various instruments made, with notes on the adjustment, use and care of instruments. There are also papers on "Stadia Surveying or Tachimetry," by O. Von Geldern; and "The Principle of the Logarithmic Slide Rule," by H. Vischer. The specialties included are the cyclotomic transit, the Saegmuller solar attachment and vertical sighting telescope, and the Goldschmid aneroid. The makers advocate the use of the "dumpy" level commonly used in Europe, in preference to the Y level, and claim that it will do as good work as the latter while being less expensive. The dumpy level is the more difficult to adjust, but will retain its adjustment longer. Aluminum transits are made in two sizes, weighing 4½ and 7½ lbs.

CONSTRUCTION NEWS.

CONDENSED LIST OF CONTRACTS PENDING WITH DATE OF OPENING BIDS.

Bids to be opened.	Work.	Place.	See Eng. News.
July 2.	Steel arch bridge,	Paterson, N. J.	June 25
	Advertised, Engineering News, June 25.		
July 2.	Brick paving,	Sandusky, O.	June 18
July 2.	Bank building,	Key West, Fla.	June 4
July 2.	Hospital buildings (5),	Gallipolis, O.	June 11
July 3.	Granite paving blocks,	Norfolk, Va.	June 18
July 3.	Heating, ventilating, etc.,	Chicago, Ill.	June 25
July 3.	Electric lighting,	Evanston, O.	July 2
July 3.	Addition to reformatory,	Ellenville, N.Y.	July 2
July 3.	Asphalt paving,	Utica, N. Y.	July 2
July 3.	County road,	Bozeman, Mont.	July 2
July 3.	Private drains,	Chicago, Ill.	June 25
July 3.	Water tunnel under Lake Mich.,	Chicago.	July 2
July 3.	Garbage removal,	Utica, N. Y.	July 2
July 6.	Water tube boiler, etc.,	Allegheny, Pa.	July 2
July 6.	Iron bridges,	West Orange, N. J.	July 2
July 6.	Sewers, park walks,	Allegheny, Pa.	July 2
July 6.	Sewer brick,	Washington, D. C.	July 2
July 6.	Pipe sewers,	Oakland, Cal.	July 2
July 6.	Grading and curbing,	Johnston, R. I.	July 2
July 6.	Asphalt paving, etc.,	Jersey City, N. J.	July 2
July 6.	Electric light plant,	Columbus, O.	July 2
July 6.	Repointing bridge masonry,	Toledo, O.	July 2
July 6.	Electric lighting,	Orange, N. J.	July 2
July 6.	Brick paving,	Ottumwa, Ia.	July 2
July 6.	Sewers,	Bradford, Pa.	July 2
July 6.	Sand and pebbles,	Washington, D. C.	July 2
	Advertised, Engineering News, July 2.		
July 6.	Causeway,	Camden, N. J.	June 18
July 6.	Steel bridge, etc.,	Stevenson, Wash.	June 25
July 6.	Heating, ventilating, etc.,	Cincinnati, O.	June 25
July 6.	Brick paving,	Toledo, O.	June 25
July 6.	Improvement bonds,	Los Angeles, Cal.	June 25
July 6.	Water-works and bonds,	Ripley, O.	June 25
July 6.	Pipe sewers, etc.,	Barnstable, Mass.	June 25
July 6.	Addition to soldiers' home,	Grand Rapids.	June 25
July 6.	Macadam road,	East Berlin, Conn.	June 25
July 6.	Granite paving,	Albany, N. Y.	June 25
July 6.	Supplies for Frankford arsenal,	Phila.	June 11
July 6.	Brick sewer,	Rock Island, Ill.	June 11
July 6.	Water-works,	Deckertown, N. J.	June 11
	Advertised, Eng. News, June 11 to July 2.		
July 6.	Fire hose (1,000 ft.),	Anaconda, Mont.	June 4
July 6.	County buildings,	Santa Barbara, Cal.	Feb. 27
July 6.	Electric lighting,	St. Mary's, Ont.	May 21
July 6.	Pile bridge,	Olivet, S. Dak.	May 28
July 6.	Jail,	Kingsman, Ariz.	June 18
July 6.	Granite curbing,	Washington, D. C.	June 18
July 6.	Macadamizing,	Oakland, Cal.	July 2
July 6.	Bridge,	Salt Lake City, Utah	June 18
July 6.	Addition to home,	Grand Rapids, Mich.	June 18
July 7.	Dormitory,	Darlington, Okla. Ter.	June 18
July 7.	Water-works,	Delphos, O.	June 18
	Advertised, Eng. News, June 18 and 25.		
July 7.	Electric light plant,	Portland, Mich.	May 21
July 7.	Supplies	Sandy Hook Proving Ground.	June 11
July 7.	Iron bridge (170 ft.),	St. Clairsville, O.	June 25
July 7.	Steel bridge,	Bucoda, Wash.	June 25
July 7.	County buildings (3),	Brooklyn, N. Y.	June 25
July 7.	Gravel (10,000 cu. yds.),	New York	June 25
July 7.	Drainage ditches (22½ m.),	Tamico, Ill.	June 25
	Advertised, Engineering News, June 25.		
July 7.	Brick paving, grading, etc.,	St. Louis	June 25
July 7.	Sewers,	Trenton, N. J.	June 25
July 7.	Road roller,	La Salle, Ill.	June 25
July 7.	Bridge,	Sprucehead, Me.	July 2
July 7.	Iron bridge,	Redfield, S. Dak.	July 2
July 7.	Brick paving,	Brooklyn, N. Y.	July 2
July 7.	Gravel roads (14 miles),	Brazil, Ind.	July 2
July 7.	Improving 11 streets,	Chicago, Ill.	July 2
July 7.	County road,	Deerlodge, Mont.	July 2
July 7.	Sewers,	Brooklyn, N. Y.	July 2
July 7.	Pipe sewers,	Dayton, O.	July 2
July 7.	Additions school building, etc.,	Brooklyn.	July 2
July 7.	Concrete bridge, etc.,	Paterson, N. J.	July 2
July 7.	Steel bridge,	Olympia, Wash.	July 2
July 7.	Brick and pipe sewers,	Jersey City, N. J.	July 2
July 7.	Steel pipe sewers, etc.,	Jersey City, N. J.	July 2
July 8.	Marble and mosaic flooring,	Boston, Mass.	July 2
July 8.	Grading, etc.,	New York, N. Y.	July 2
July 8.	Ventilating system,	Buffalo, N. Y.	July 2
July 8.	Steam heating,	New York, N. Y.	July 2
July 8.	Bridge approaches,	Buffalo, N. Y.	July 2
July 8.	Bridge,	Jasper, Ga.	July 2
July 8.	Wagon bridge,	Rosebury, Ore.	July 2
July 8.	Macadam road,	Griswold, Conn.	July 2
July 8.	Macadam road,	Plymouth, Conn.	July 2
July 8.	Water bonds,	Schenectady, N. Y.	July 2
July 8.	Dredging (218,000 cu. yds.),	Boston	June 25
	Advertised, Eng. News, June 25 and July 2.		
July 8.	Artesian wells,	Washington, D. C.	June 25
	Advertised, Eng. News, June 25 and July 2.		
July 8.	Hospital building,	Middletown, Conn.	June 25
July 8.	Public building work,	Milwaukee, Wis.	June 25
July 8.	Asphalt paving,	Buffalo, N. Y.	June 25
July 8.	Supplies U. S. powder depot,	Dover, N.J.	June 11
July 8.	Water-works,	Pella, Ia.	June 11
	Advertised, Eng. News, June 11 and 18.		
July 8.	Electric lighting,	Ogdensburg, N. Y.	May 28
July 8.	School building,	Toledo, O.	June 18
July 8.	Water-works,	Keosauqua, Ia.	June 18
	Advertised, Eng. News, June 18 and 25.		
July 9.	Barracks (2),	San Francisco, Cal.	June 18
July 9.	Iron bridges (2),	Westmoreland, Kan.	June 11
July 9.	County road,	Denver, Colo.	June 25
July 9.	Macadam road,	Flushing, N. Y.	June 25
	Advertised, Eng. News, June 25 and July 2.		
July 9.	Elevators, supplies, etc.,	Chicago, Ill.	July 2
July 10.	Fire engine house,	Brooklyn, N. Y.	July 2
July 10.	Brick paving,	Cincinnati, O.	July 2
July 10.	Railway bridge at Auburn,	Ont.	July 2
July 10.	Sewer system,	Fulton, N. Y.	June 25
	Advertised, Eng. News, June 25 and July 2.		
July 10.	Electric light plant,	Madison, Wis.	June 25
July 10.	Wagon bridge,	Ellensburg, Wash.	June 25
July 10.	Pile bridge (400 ft.),	Williams, Cal.	June 25
July 11.	Brick pvg (4,318 lin. ft.),	Alexandria, Ind.	June 25
July 11.	School building,	Bridgeport, Conn.	June 25
July 10.	Brick paving,	Auburn, N. Y.	June 25
	Advertised, Eng. News, June 25 and July 2.		
July 10.	County court house,	Wheaton, Ill.	June 25
July 10.	County jail,	Leesburg, Ga.	June 4
July 10.	Heating apparatus,	Victoria, B. C.	June 4
July 11.	Steel lock gates (2),	Cincinnati, O.	June 18
July 11.	Water-works,	Gilbertsville, N. Y.	June 25
	Advertised, Eng. News, June 25 and July 2.		
July 13.	Bridge floor,	Santa Ana, Cal.	June 25
July 13.	Road roller,	Stockton, Cal.	June 25
July 13.	Gas lighting, apparatus,	Mobile, Ala.	June 25
	Advertised, Eng. News, June 25 and July 2.		
July 13.	Bridge,	Eureka, Cal.	July 2
July 13.	School buildings (2),	Binghamton, N. Y.	July 2
July 13.	Paving, grading, etc.,	Baltimore, Md.	July 2
July 13.	Asphalt paving,	Orange, Cal.	July 2
July 14.	Repairs to municipal bldg.,	Brooklyn.	July 2
July 14.	Granite block paving,	Brooklyn, N. Y.	July 2
July 14.	Asphalt block paving,	Troy, N. Y.	July 2
July 14.	Grading,	Kansas City, Mo.	July 2
July 14.	Sewer bonds ($100,000),	Fall River, Mass.	July 2
July 14.	Sewage pumping works,	Hampton, Va.	July 2
July 14.	Heating and ventilating,	Sioux City, Ia.	June 25
	Advertised, Eng. News, June 25 and July 2.		
July 15.	Interior building work,	Detroit, Mich.	June 25
July 15.	Artesian well,	near Cortez, Colo.	June 25
July 15.	Sewers,	Cleveland, O.	June 25
July 15.	Telephone franchise,	Toronto, Ont.	June 18
July 15.	Plans for state capitol,	Jackson, Miss.	May 7
July 15.	Bridge,	Little Rock, Ark.	June 11
	Advertised, Eng. News, June 11 to July 9.		
July 15.	Bridge,	Longdale, Va.	July 2
	Advertised, Eng. News, July 2 and 9.		
July 15.	Aqueduct,	Cincinnati, O.	July 2
July 15.	Brick paving,	New Haven, Conn.	July 2
July 15.	Asphalt paving,	Winnipeg, Man.	July 2
July 15.	Water-works,	De Ruyter, N. Y.	July 2
July 15.	Steam fog signal,	Cape Vincent, N. Y.	July 2
	Advertised, Eng. News, July 2 and 9.		
July 15.	Intercepting sewer (2,600 ft.),	Portland, Me.	July 2
	Advertised, Eng. News, July 2 and 9.		
July 15.	Brick paving, etc.,	California, Pa.	July 2
July 16.	Brick paving,	Cincinnati, O.	July 2
July 16.	Postoffice building,	Pueblo, Colo.	June 18
	Advertised, Eng. News, June 18 and 25.		
July 16.	School building,	Toledo, O.	June 25
July 17.	Iron bridge (140 ft.),	Piqua, O.	July 2
July 17.	Bridge piers, etc.,	Woodstock, N. B.	July 2
July 17.	Addition to school building,	Paterson, N. J.	July 2
July 18.	Street ry. franchise,	Santa Ana, Cal.	July 2
July 18.	Cement,	Washington, D. C.	July 2
	Advertised, Engineering News, July 2.		
July 20.	Plans for bank bldg.,	Brooklyn, N. Y.	July 2
July 20.	Electric light plant,	Ocala, Fla.	July 2
July 20.	Cable coal railway,	West Point, N. Y.	July 2
July 20.	Harbor work at	Erie, Pa.	June 25
	Advertised, Eng. News, June 25 to July 16.		
July 20.	Stand-pipe, etc.,	Columbus, O.	June 25
July 20.	Electric light plant,	Ocala, Fla.	May 28
July 20.	Addition to court house,	Fort Jones, Cal.	June 11
July 20.	Metal book stacks,	Chicago, Ill.	July 2
July 21.	Bridge piers,	Boston, Mass.	July 2
	Advertised, Eng. News, July 2 to 16.		
July 21.	Asphalt paving, etc.,	Defiance, O.	July 2
July 21.	Brick and pipe sewers,	Dayton, O.	July 2
July 22.	Water-works,	Cerro Gordo, Ill.	July 2
	Advertised, Engineering News, July 2.		
July 23.	Light station,	Portland, Ore.	July 2
July 23.	Township house,	East St. Louis, Ill.	May 28
July 23.	Plans for bridge,	Brooklyn, N. Y.	July 2
	Advertised, Eng. News, July 2 to 16.		
July 24.	Repairs to breakwater,	Burlington, Vt.	June 25
	Advertised, Eng. News, June 25 to July 16.		
July 25.	Iron and steel bridge,	Cumming, Ga.	June 18
	Advertised, Engineering News, June 18.		
July 25.	Brick paving,	Racine, Wis.	July 2
	Advertised, Engineering News, July 2.		
July 27.	Garbage disposal plant,	Halifax, N. S.	July 2
	Advertised, Eng. News, July 2 to 23.		
July 30.	Brick paving,	Fort Dodge, Ia.	June 25
July 31.	St. ry franchise,	Kingston, Jamaica, W. I.	May 28
July 31.	Public lighting,	Utica, N. Y.	July 2
Aug. 1.	Plans for city hall,	Binghamton, N. Y.	June 4
Aug. 1.	County jail work,	Minneapolis, Minn.	June 18
Aug. 15.	Ferryboat,	Dartmouth, N. S.	June 25
Aug. 17.	Trent Canal work (14 m.),	Ottawa, Ont.	June 25
Sep. 4.	Pumping engines,	St. Louis, Mo.	May 14
Sept. 18.	Torpedo boats,	Washington, D. C.	June 25
No date.	Fire hose,	West Elizabeth, Pa.	June 25
	Advertised, Eng. News, June 25 and July 2.		
No date.	Cut stone for bridge,	Northboro, Mass.	July 2
	Advertised, Engineering News, July 2.		
No date.	Electric lighting,	Owensboro, Ky.	July 2

RAILWAYS.

East of Chicago.

AMMONOOSUC LUMBER.—A press dispatch from Berlin, N. H., states that this company has located 2½ miles of additional railway into its timber lands.

ELKHART & MICHIGAN.—A press dispatch from Laporte, Ind., states that this company has been incorporated by Elkhart, Ind., and Michigan capitalists. The road is projected from Elkhart to a point in Cass county, Ind., and ultimately to Kalamazoo, Mich.

ERIE & EASTERN.—R. L. Kernochan, Titusville, Pa., writes us that parties with whom he is associated own right of way for this road, but that no active steps are being taken toward building.

HACKENSACK & LODI.—This company has been incorporated with a capital stock of $25,000 to construct a railway in Bergen county, N. J.; incorporators: Wm. M. Johnson, Hackensack, N. J.; David A. Pell, Saddle River, N. J.; George C. Mercer, Lodi, N. J.; Jos. L. Rusling, Paterson, N. J.; Robt. H. Monsees, Brooklyn, N. Y.; Walt. M. Brown, New York; Lewis D. Moury, Englewood, N. J.

INDIANA CENTRAL.—A press dispatch from Portland, Ind., states that the citizens of Penn township, Gay county, have voted a subsidy of $17,000 toward building this railway. This makes $200,000 that has been voted in aid of the project. The survey is completed from Huntington to Union City.

MANISTEE & GRAND RAPIDS.—E. W. Muenscher, Ch. Engr., Manistee, Mich., writes us that the projected length is 42.8 miles; it will connect the towns of Manistee, Oak Hill, Filer City, and Luther, Mich. About 26 miles of main line was constructed previous to 1892; about 3½ miles was added in 1895. Track is now being laid on an extension eastward from the Chicago & West Michigan crossing, of 13.5 miles, and will be completed by June 30, 1896. Pres., John Canfield, Manistee, Mich.

NEW YORK & PENNSYLVANIA.—It is stated that this company has bought the old roadbed of the Hornellsville & Pine Creek Ry. for $10,000, and will use it in the construction of a new line. D. N. Rumsey, Oswayo, Pa.

ROYAL OAK, SOUTHFIELD & FARMINGTON.—It is stated that $14,000 have been subscribed for building this railway to connect Royal Oak, Southfield and Farmington, Mich. The line will be about 20 miles long.

TORONTO, HAMILTON & BUFFALO.—Pigott & Ingles, contractors, Hamilton, Ont., write us that the projected length of a small spur track is two miles; surveys made and right of way partly guaranteed; work is now in progress; it consists of about 250,000 cu. ft. of excavation, and tracklaying for double track; one bridge 240 ft. long and several highway bridges are to be constructed.

WASHINGTON COUNTY.—It is stated that work will soon be resumed on the Maine shore line railway, of which eight miles are graded, as noted in our issue of May 14. James Mitchell, Portland, Me., is the sole contractor. Pres., Geo. A. Curran, Calais, Me.

Southern.

BALTIMORE & OHIO.—It is stated that this company has filed a mortgage for $3,400,000 on all the rolling stock of the railway as security for the issue of 6% three-year gold bonds. The proceeds will be used to purchase additional equipment. About 24,000 tons of rails have been ordered; east of the Ohio 85-lb. rails will be used; west of the Ohio lighter ones will be used. Address W. H. Green, Baltimore, Md.

FLORIDA.—H. F. Dutton & Co. are building a railway, 20 miles long, to connect Clark, Fla., on the South Florida Division of the Plant System with the Suwanee River. Ten miles have been graded and track will be put down in a few days.

CHARLESTON & WEST CAROLINA.—The Port Royal & Western Carolina has been reorganized under this name. It is stated that the new owners expect to make important improvements. The road now extends from Augusta, Ga., to Spartanburg, S. C., 135 miles, with 96 miles of branches to Anderson and Greenville, S. C. Supt., A. W. Anderson, Augusta, Ga.

NORFOLK & WESTERN.—Press dispatches state that the sale of this railway has been ordered. The lowest bid to be considered is $3,000,000. F. J. Kimball and Henry Fink, receivers, Philadelphia, Pa. The Mercantile Trust Co., New York city, is the plaintiff and the decree is the result of unpaid interest to the amount of $404,750.

NEW MARTINSVILLE & CLARKSBURG.—The contract for the construction is said to have been let to Mr. Bennett, Athens, O., the work to be begun soon. The railway will be about 62 miles long. Pres., T. M. Jackson, Clarksburg, W. Va.

Northwest.

DULUTH GREAT WESTERN.—C. S. Cox, Hubbard, Minn., writes us that the projected length of this railway, noted in our issue of May 21, is 500 miles. No surveys have as yet been made. The work of securing capital is now in progress.

GREAT NORTHERN.—Foley Bros. & Guthrie are stated to have the contract for an extension, 35 miles long, from Crookstown, Minn., to Halstad, Minn. Ch. Engr., John F. Stevens, St. Paul, Minn.

Southwest.

TEXAS CENTRAL.—It is stated that work will soon begin on the extension of the Texas Central from Albany, Tex., westward toward New Mexico. Some surveying has already been done. Ch. Engr., Jos. McWilliams, Waco.

Rocky Mountain and Pacific.

EUREKA & KLAMATH RIVER.—The extension of this railway is said to have been completed from Mad River to the mouth of Mad River Slough, a distance of 7½ miles. It is to be extended 3½ miles further, opposite Eureka, Cal., with which it will be connected by ferry. It is owned by the John Vance Mill & Lumber Co., Eureka, Cal.

Foreign.

GUATEMALA COLONIZATION.—Press dispatches state that at Coatzacoalcos, Mexico, all preparations have been made by this company for the immediate construction of the railway connecting the Tehuantepec National Ry. with the city of Guatemala. The company has just made a guarantee deposit of $50,000 in 3% bonds of national consolidated debt with the national treasury of Mexico that the terms of the concession will be carried out.

STREET AND ELECTRIC RAILWAYS.

MILFORD, MASS.—Sumner Myric, of Boston, and Charles E. Barnes, of Plymouth, are directors in the Milford & Hopedale St. Ry. Co., which is projecting a number of electric railways to connect this place with other towns.

NORTH ADAMS, MASS.—The North Adams "Democrat" announces that the electric railway is to be extended. Gen. Mgr., W. T. Neary.

THOMPSONVILLE, MASS.—The Enfield & Long Meadow Co. is stated as making preparations to build an electric railway from Thompsonville to Springfield.

WORCESTER, MASS.—A new company is said to have been organized to build an electric railway from Worcester to Clinton and Fitchburg; capital stock, $150,000.

MANCHESTER, CONN.—J. L. Hall, Supt., writes us that the Hartford, Manchester & Rockville Tramway Co., noted in our issue of June 18, has completed 6.5 miles of electric railway and has 5½ miles under contract to Fred T. Lay, Springfield, Mass. The railway will connect Hartford, Manchester and Talcottville, Mass. Pres., M. S. Chapman, Manchester.

WATERBURY, CONN.—The Waterbury Traction Co. has been granted permission to extend its electric lines.

PAWTUCKET, R. I.—An ordinance has been passed granting the Pawtucket St. Ry. Co. the right to make extensions. The work is to be done at once.

BUFFALO, N. Y.—The citizens of Hamburg are discussing the feasibility of constructing an electric railway between the village and Buffalo. Public meetings have been called.——The council has granted to the Crosstown Street Ry. Co. permission to lay tracks in several streets.

BROOKLYN, N. Y.—The New York & Queens Co. Ry. Co. has been incorporated with a capital stock of $2,500,000. This company is a consolidation of the Steinway Ry. Co. of Long Island City, the Newtown Ry. Co., the Riker Ave. & Sandford's Point R. R. Co., and the Flushing & College Point Electric Ry. Co. The directors are Rudolph T. McCabe, Benjamin Orme, Walter Pease, of New York city, and Edward J. Matthews, Edward T. Stotesbury, Caleb F. Fox, William Shelmerdine, and R. E. Gowen, of Philadelphia.

PENFIELD, N. Y.—A movement is on foot for constructing an electric street railway from this place to Rochester. It will be 3½ miles long.

PLATTSBURG, N. Y.—The Plattsburg Traction Co. has received permission to use electricity as a motive power. The company recently secured authority to build a railway to carry passengers to the Catholic summer school, located on Lake Champlain.

WESTFIELD, N. Y.—A Philadelphia construction company, represented by C. D. Almore, of Philadelphia, is considering the project of building an electric railway from Chautauqua and Mayville through Westfield to Barcelona-on-the-Lake.

HOOSICK, N. Y.—The stockholders of the Hoosick Ry. Co. have voted to increase their capital stock from $60,000 to $75,000, the increase of $15,000 to be used in the construction of an extension from the terminus at Walloomsac to the Vermont state line. The company has completed the necessary surveys and is prepared to commence work as soon as the Bennington Ry. Co. shall be ready to commence the construction of the proposed road to meet that of the Hoosick company.

WEST SENECA, N. Y.—A new franchise has been granted to the Woodlawn Beach Ry. Co. Work has been resumed and it is expected that cars will be running in about two weeks.

OCEAN CITY, N. J.—E. B. Lake, Pres., writes us that the projected length of the Ocean City Ry., noted in our issue of June 18, under Railways, is two miles. Construction began June 15; to be completed by Oct. 10, 1896. The railway will connect this place with Paterson, N. J. Ch. Engr., H. M. Kalbach, Ocean City, N. J.

PATERSON, N. J.—A branch of the Bergen County Traction Co.'s electric railway, noted in our issue of June 18, will extend from Leonia to Hackensack. Preliminary work on it has already begun. It is proposed to extend the line parallel with the Northern R. R. from Englewood north, touching at all places between there and Nyack. A spur to Cherry Hill is also expected to be made.

DOYLESTOWN, PA.—It is expected that an electric railway will be built from here to Philadelphia this summer. A preliminary survey has been run over the line, which is 24 miles long. W. Jenks Fell, Philadelphia, and Frank N. Booz, Doylestown, are interested.

PITTSBURG, PA.—A press report states that the Allegheny Traction Co. will construct an electric railway from Pittsburg to Butler, Pa. Wilkins & Davison, Westinghouse Bldg., Pittsburg, have charge of the work.

BALTIMORE, MD.—Contracts have been awarded by the Baltimore & Ellicott City Ry. Co. to Thomas C. Basshor & Co., and to the Maryland Mfg. & Construction Co. Other contracts will be let within a few weeks. Pres., Henry T. Douglas, Equitable Bldg.——The East Baltimore & Clifton Park R. R. Co. has been incorporated to build electric railways; incorporators: Nelson Perin, Geo. C. Jenkins, and William P. Harvey.——The Baltimore Traction Co. has been granted permission to extend its tracks. Ch. Engr. Wm. F. House, Jr., Druid Hill Ave. extension.

GRAHAM, VA.—Press reports state that the Graham-Bluefield Electric Co. proposes to extend its street railway line not only to Graham, but to Pocahontas, Cooper's, Bramwell, and other points in the coal fields.

PARKERSBURG, W. VA.—It is stated that work will begin soon on an electric railway seven miles long. Geo. A. Burt is interested.

SISTERSVILLE, W. VA.—Surveys are in progress for an electric railway from Sistersville to Clarksburg, a distanec of five miles. H. C. Johnson & Co., of Pittsburg, are interested.

WINSTON, N. C.—Geo. W. Hinshaw and other business men will build an electric railway between Yadkin Shoals and East Bend, Yadkin county, N. C., a distance of several miles.

CHATTANOOGA, TENN.—Press reports state that an electric railway may be built to Signal Mountain, a distance of 13 miles. It will cost about $300,000. T. J. Nichol is interested.

CLARKSVILLE, TENN.—The Electric Ry. of Clarksville has been incorporated. R. H. Burney, J. N. Shelton and N. L. Carney are interested.

JACKSON, TENN.—Mules are to be exchanged for electricity on the street railway. Pres., J. H. Hunter; Secy., J. W. Burkett.

CHAGRIN FALLS, O.—Officials of the Cleveland & Chagrin Falls Electric Ry. Co. announce that as soon as their line is completed to this place it will immediately be extended to Youngstown, O., via Warren, O., making an electric line of 61 miles.

AURORA, ILL.—The Aurora & Geneva Ry. Co. has been incorporated with a capital stock of $10,000, to build an electric railway in Kane county, Ill.

BELLEVILLE, ILL.—The St. Louis & Belleville Rapid Transit Co. has been incorporated to construct an electric railway over the St. Clair turnpike, between East St. Louis and Belleville, Ill.; capital stock, $300,000; Pres., George Silsby, Saginaw, Mich.; Vice-Pres., Geo. H. Welton, Chicago, Ill.; Treas., W. F. Stevens, Saginaw, Mich.; Secy., John H. McDonald, Bay City, Mich.

CHICAGO, ILL.—The Chicago "Record" states that work on the Englewood & Chicago electric railway has been begun in Auburn Park and the road will be pushed to early completion. All contracts have been let.

SIOUX FALLS, S. DAK.—The Sioux Falls Transportation Co. has been incorporated; capital stock, $250,000, to build 30 miles of electric railway; incorporators: Chas. F. Smith, Boston, Mass.; F. H. Files, Chas. O. Bailey, Harold E. Judge, Sioux Falls.

WELLSTON, MO.—It is stated that the Wellston, Creve Couer Lake & St. Charles Co. has been incorporated, with a capital stock of $2,000, to build an electric railway from Wellston to St. Charles, with a branch to Creve Couer Lake; incorporators: Robert C. Schnecko, of Clayton, Mo.; J. B. C. Lucas, F. A. Thompson, T. T. Lucas, Charles P. Damon, G. R. Wise, J. H. Chambers, John H. Bobb and E. T. Thomas.

SANTA ANA, CAL.—The Santa Ana "Blade" states that bids will be received up to July 18 for a franchise to construct and operate a motor street railway with either steam, compressed air or electricity. Jos. Beach, Cy. Clk.

LOS ANGELES, CAL.—The Los Angeles "Express" states that an ordinance has been adopted by the council granting to H. G. Wilshire and assigns the right to construct and operate an electric street railway along certain streets in this city.

ELECTRIC LIGHT AND POWER.

MANCHESTER, N. H.—Press reports state that the Manchester Electric Light Co. has voted to lease its plant to the Manchester Electric Co. Pres., P. L. Saltonstall, of Boston; Treas., W. A. Tucker, of Boston. The capital stock of the company is $250,000, and it has a contract to furnish electric lights for the city for several years. It is stated that the new company has in view the taking of power from Garvin's Falls, 14 miles up the Merrimack River, of which W. E. Russell is the owner.

MYSTIC, CONN.—Arrangements are being made for electric lights in this place. Jeremiah Holmes, Chn. Bd. Pub. Wks.

PAWTUCKET, R. I.—C. O. Mailloux, 45 William St., New York, N. Y., is reported to have presented a report on the proposed city electric light; estimated to cost about $90,000.

HAMBURG, N. Y.—It is reported that bids will be asked soon for lighting this place with electricity for about 10 years. John Cloepper, Clk.

NORTHVILLE, N. Y.—The Northville Electric Light & Power Co. has decided to double the present capacity of its plant owing to the demand for light and power in Northville and vicinity. It is stated that the contracts will probably be awarded soon.

UTICA, N. Y.—Bids are asked until July 31 for lighting the streets and public buildings of this city, according to reports; bond, $40,000. J. A. Cantwell, Cy. Clk.; John G. Gibson, Mayor.

ORANGE, N. J.—Bids are asked until July 6 for lighting this city with electricity. Alpheus Struble, Cy. Clk.——Considerable property has been purchased by the People's Electric Light & Power Co., and work on its new plant will be commenced soon, according to reports.

PHILADELPHIA, PA.—Bids are asked until July 10 for electric lights in Hunting Park. Russell Thayer, Ch. Engr. and Supt. Comrs., Fairmount Park.

MERCER, PA.—A company is reported to have been organized to put in a plant; estimated cost, $10,000.

SISTERSVILLE, W. VA.—It it stated that the Sistersville Light & Power Co. has been granted a franchise and will at once erect a plant. H. S. Sands, of Wheeling, W. Va., and G. W. Stocking and Edward Roome, of Sistersville, are interested.

OCALA, FLA.—Bids are asked until July 20 for constructing an electric light plant, according to reports. Engrs., Royal Electric Co., Peoria, Ill.; R. G. Blake, Cy. Clk.

HAWKINSVILLE, GA.—It is stated that this city has voted to issue bond for an electric light plant and waterworks.

ALGIERS, LA.—The Algiers Electric Light & Water Co.'s plants were damaged by fire, June 20, causing a loss of about $10,000. Pres., E. L. Bemiss.

JACKSON, TENN.—It is reported that arrangements have been completed by J. H. Hunter, Pres. Jackson & Suburban St. Ry. Co., for the construction of an electric light plant.

OWENSBORO, KY.—Bids are asked by W. P. Small, Owensboro, for furnishing 80 arc lights for 10 years, and also incandescent lighting for domestic purposes.

COLUMBUS, O.—Bids are asked until July 6 for erecting an electric light plant at the Columbus State Hospital. Engrs., E. P. Roberts & Co., Cleveland, O.; A. B. Richardson, Secy. Bd. Trustees, Columbus.

EVANSTON, O.—Bids are asked until July 3 for lighting the streets for 10 years, with electricity or gas, according to reports. Wm. H. Krapp, Town Clk.

BERRIEN SPRINGS, MICH.—It is reported that this town voted unanimously for issuing $25,000 in bonds for electric lights and water-works.

LANSING, MICH.—Work has been begun by A. A. Piatt on the proposed water power dam at Leadleys, to be owned by him. The power house will be 50 × 40 ft., plans for which were prepared by Fred Thoman, Jr.. A flume wide enough for five 100-HP. wheels and 60 ft. long will be built. The plan is to put in two water wheels at first and add others if it should seem best in the future. Over the flume will be a building designed to cover the shaft and gearing, which are necessary to run the machinery in the large building. James Lefel & Co., of Springfield, O., prepared the plans for the flume. Constructing Engr., Frank Fowser, Lansing.

LOUISIANA, MO.—It is reported that arrangements are being made for a municipal electric light plant. The present contract for lighting the city expires in October. Henry L. Hart, Mayor.

STAYTON, ORE.—It is reported that this town is to have an electric light plant.

SANTA CLARA, CAL.—Bids will soon be asked for a municipal electric light plant for this town, for which C. E. Moore, of Santa Clara, has prepared plans.

SELMA, CAL.—Capt. F. Youngren and N. W. Evans are reported as interested in a projected electric plant in Lagrange, Merced county.

VALLEJO, CAL.—The city trustees have asked for bids for lighting the streets of this place with 45 arc lights, according to reports.

YREKA, CAL.—The Brown Bear mine on Salmon River is about to be purchased by an English syndicate. It is the intention of the new firm to put in an electric plant with sufficient power to run a 40-stamp mill.

NEW COMPANIES.—Delta Electric Power Co., Delta, Md.; S. J. Whiteford, H. C. Whiteford.

Bossert Electric Construction Co., Utica, N. Y.; $16,000; to manufacture junction fuses and switch boxes, tablet boards and electric switches; Wm. F. Bossert, H. P. Crouse, S. C. Adams, F. Sang, Utica.

Point Pleasant Electric Light & Power Co., Point Pleasant Beach, N. J.; $10,000, with full amount paid in; Quimby N. Evans, Wm. C. Adams, Juan A. Almirall, Brooklyn, N. Y.; Joseph W. Johnson, Benj. F. Coles, of Point Pleasant.

Delaware River Power Co., Morrisville, Bucks county, Pa.; $10,000, commencing with $1,000; George Pfeiffer, Jr., Camden, N. J.

BRIDGES.

SPRUCEHEAD, ME.—Bids are asked until July 7 for constructing a bridge from this place to the mainland, according to reports. Willis A. Adams can be addressed.

BOSTON, MASS.—Bids are asked until July 21 for erecting the piers for the Charlestown Bridge, as stated in our advertising columns. Geo. G. Crocker, Chn. Rapid Transit Comn.; B. L. Beal, Secy.

NORTHBORO, MASS.—Bids are being received for the cut stone for the Assabet River bridge, Sec. 8, Nashua viaduct, as stated in our advertising columns. Jones, Pollard & Co., Northboro.

ALBANY, N. Y.—The state superintendent of public works on June 25 awarded the following contracts: For an iron bridge over the Black River, at Carthage, substructure, Dunfee, Belden & Co., Syracuse, $4,916; superstructure, Buffalo Bridge & Iron Works, $15,170; reconstructing west abutment of bridge, No. 210, over Clark & Skinner Canal, Buffalo, Dodge & MacGregor, Buffalo, $3,294.

BROOKLYN, N. Y.—Plans are asked until July 23 for the superstructure for a new bridge over Newtown Creek, between Manhattan Ave., Brooklyn, and Vernon Ave., Long Island City, as stated in our advertising columns. Engr., John J. McLaughlin, Jamaica, N. Y.; Frank Williams, Chn. Com.; Wm. J. Wassmuth, Secy.

BUFFALO, N. Y.—Bids are asked until July 8 for building approaches to the Jersey St. bridge over the Erie Canal. R. G. Parsons, Secy. Dept. Pub. Wks.

BUFFALO, N. Y.—The Erie and the New York Central railways have signed a contract to build a viaduct over their tracks at Chicago St. The structure will cost about $100,000.

ELMIRA, N. Y.—Thomas Spence, Cy. Clk., writes us that the Church St. bridge, noted last week, is a small affair, and will probably be built by local contractors.

NEW YORK, N. Y.—It is stated that engineers are making soundings for the proposed bridge over the Harlem River at Kingsbridge.

PATERSON, N. J.—Bids are asked until July 7 for constructing a concrete bridge on the lower Preakness road, and for painting and making repairs to three bridges. Thos. D. Ryerson, Chn. Com.; A. B. Pearce, Clk.

WEST ORANGE, N. J.—Bids are asked until July 6 for constructing two iron bridges, etc. James Owen, County Engr., 800 Broad St., Newark, N. J.

ERIE, PA.—It is reported that the contracts have been let for the 500-ft. iron truss bridge over the Allegheny River at Warren on the Philadelphia & Erie, and work will be begun at once. John D. Kelly, of Williamsport, Pa., has the contract for the masonry, and A. & P. Roberts, of Philadelphia, the iron work.

GETTYSBURG, PA.—It is reported that the county commissioners have asked for bids for constructing a 75-ft. iron or steel bridge over the Bermudian Creek.

PHILADELPHIA, PA.—The Fairmount Park commission has decided to erect a temporary bridge at Ford Road and Green Lane.

PITTSBURG, PA.—It is proposed to renew the floor system and to make other repairs to cost about $80,000 to the Point Bridge, which was recently purchased by the city at a cost of $400,000.

LONGDALE, VA.—Bids are asked until July 15 for constructing the masonry and superstructure for the bridge over the Jackson River at Iron Gate, as stated in our advertising columns. Address J. E. Johnson, Jr., Longdale.

NEWPORT NEWS, VA.—It is stated that $90,000 in bonds will soon be issued for constructing an iron bridge, school buildings, jail, etc. J. K. M. Newton, Cy. Attorney.

RICHMOND, VA.—The Chesapeake & Ohio Ry. has been granted permission to construct and reconstruct viaducts, etc., over certain streets.

JASPER, GA.—Bids are asked until July 8 for constructing a 95-ft. bridge in three spans, according to reports. C. J. Cornelison, Ordinary, Jasper.

CINCINNATI, O.—Bids are asked until July 15 for constructing a temporary aqueduct over Mitchell Ave. at the Miami Canal, Millcreek township. John Breen, Pres. County Comrs.; Geo. C. Zimmermann, Clk.

FINDLAY, O.—The following bids were received June 13 for constructing a 154-ft. bridge over Blanchard River; J. W. S. Riegle, County Surv., Findlay:

Canton Bridge Co., Canton, O.	$3,076 to $3,990
Brackett Bridge Co., Cincinnati, O.	4,130
Youngstown Bridge Co., Youngstown, O.	4,220 and 4,420
New Columbus Bridge Co., Columbus, O.	4,400 and 4,550
Indiana Bridge Co., Muncie, Ind.	4,025
Massillon Bridge Co., Massillon, O.	4,106
Toledo Bridge Co., Toledo, O.	4,090
Wrought Iron Bridge Co., Canton, O.	4,176 to 4,220
Bellefontaine Bridge Co., Bellefontaine	4,092 and 4,087
Champion Bridge Co., Wilmington, O.	4,050
King Bridge Co., Cleveland, O.	4,260
Penn Bridge Co., Beaver Falls, Pa.	4,350

Contract awarded to the Canton Bridge Co., on plan D, at $3,990.

PIQUA, O.—Bids are asked until July 17 for constructing a 140-ft. iron bridge over Panther Creek. E. E. Pearson, County Audr., Troy, O.

TOLEDO, O.—Bids are asked until July 6 for repainting the masonry work on the Cherry St. bridge. L. P. Harris, Cy. Clk.

BELLEVILLE, ILL.—It is stated that the county commissioners propose to erect a new iron bridge over Hawk Creek, Lebanon township, at a cost of $1,400.

OTTAWA, ILL.—The construction of a bridge over the Illinois River at a cost of $50,000 is being discussed, according to reports.

URBANA, ILL.—The county bridge committee on June 25 awarded contracts for highway bridges as follows: Joliet Bridge Co., Joliet, Ill., three bridges at $2,310; Attica Bridge Co., Attica, Ind., three bridges at $2,446; Lafayette Bridge Co., Lafayette, Ind., two bridges at $1,170; Ehler Bros., Champaign, Ill., one bridge at $1,111. There were 15 bidders. Engr., Ira O. Baker, Champaign.

MINNEAPOLIS, MINN.—The improvements and finance committee of the park board have decided to construct a steel bridge over Minnehaha Creek at Nicollet Ave. at a cost of about $8,000.

OMAHA, NEB.—The Chicago, Milwaukee & St. Paul Ry. Co. proposes to build iron bridges in place of its wooden structures.

DILLON, MONT.—The county clerk was instructed June 10 to advertise for bids for building a bridge over the Beaverhead River, on the new Argenta Road.

REDFIELD, S. DAK.—Bids are asked until July 7 for constructing two iron bridges of 60 ft. and 32 ft. each, according to reports. Edwin Borwell, County Audr.

OSCEOLA, MO.—It is reported that this city and the Kansas City, Osceola & Southern Ry. Co. are making

arrangements to build a new wagon and railway bridge over the Osage River. Gen. Man., B. S. Josselyn, Clinton, Mo.

OLYMPIA, WASH.—Bids are asked by the county commissioners until July 7 for constructing a 70-ft. steel bridge over the Des Chutes River at Tumwater.

TACOMA, WASH.—It is said that a number of the bridges in this city have been reported to be in a dangerous condition.

ROSEBURG, ORE.—Bids are asked until July 8 for constructing a wagon bridge over Cow Creek, about half a mile northeast of Glendale, according to reports. A. F. Stearns, County Judge, Roseburg.

SALEM, ORE.—It is stated that a 75-ft. bridge on stone abutments will be erected over Mill Creek on the county road.

BLUE LAKE, CAL.—It is reported that Surveyor Shaw and Supervisor Scott have selected the site for the proposed new bridge across the Mattole River, which is about one mile from Petrolia. The main span will be 120 ft. long with two 70-ft. spans across the north river bar.

EUREKA, CAL.—Bids are asked until July 13 for constructing a bridge over the Mattole River near Petrolia. Address Clerk of County Supervisors, Eureka.

SANTA MONICA, CAL.—Attention has been called to bridge No. 1 on Ocean Ave., near Railroad Ave., and the street committee has been directed to have plans prepared for a new bridge preparatory to voting bonds for it.

SANTA ROSA, CAL.—It is stated that the county supervisors have asked for bids for constructing a 300-ft. trestle bridge over Austin Creek.

FREDERICTON, N. B.—Plans have been completed by the board of works for a new bridge at St. Joseph to cost about $20,000, according to reports.

WOODSTOCK, N. B.—Bids are asked until July 17 for constructing stone piers and abutments under the bridge carrying the water main across Meduxnakeag River. Bids were received June 25 for constructing a 3-span steel bridge 154 ft. long over the river to carry a 10-in. water main, as advertised in our issues of June 4 to 18, as follows: Canadian Bridge Co., Montreal, $795; Dominion Bridge Co., Montreal, $874; Geo. E. King Bridge Co., Des Moines, Ia., $1,835. The high duty on bridge work prevented other companies in the United States from bidding. Donald Munro, Supt.

AUBURN, ONT.—Bids are asked until July 10 for constructing a railway bridge at Auburn; check, $3,000. J. H. Balderson, Secy. Dept. Rys. and Canals, Ottawa.

BUILDINGS.

BOSTON, MASS.—A Boston syndicate is reported as making arrangements for constructing a building in the Back Bay district, to cover 190,000 sq. ft. The structure is for the use of all kinds of sports and will cost $2,000,000. Archs., Blackall & Newton, 18 Music Hall Bldg.

BOSTON, MASS.—Bids are asked until July 8 for marble and mosaic flooring for the state house extension. Arch., Chas. Brigham, Beacon Hill Place, Boston; John D. Long, Chn. Comrs.

WORCESTER, MASS.—The Webb Granite & Construction Co. has been awarded the contract for building the new fire department headquarters at a cost of $83,000. C. H. Beck, Supt. Pub. Bldgs.

PROVIDENCE, R. I.—The board of education has awarded to Wm. Gilbane & Bro., of Providence, the contract for constructing the East Side high school building, at $120,080, exclusive of heating, ventilating and plumbing, which will be let by separate contract. Hartwell, Williams & Kingston, of Providence, have the contract for the Broad St. grammar school, to cost $60,449. D. F. Hayden, Clk.

BINGHAMTON, N. Y.—Bids are asked until July 13 for erecting two school buildings. Archs., T. I. Lacey & Son, 83 State St., and H. S. Gardner, Henry and State Sts., Binghamton. W. M. Shapley, Chn. Com.; J. E. Rogers, Pres. Bd. Education.

BROOKLYN, N. Y.—Plans are asked by the Peoples' Bank until July 20 for a new building at Broadway and Greene Ave. Pres., James Gascoine.——Alfred T. White has donated $12,800 for the erection of a tower 150 ft. high at the Wallabout Market. Work will probably be begun in a few days. Arch., W. B. Tubby, 81 Fulton St., New York.

BROOKLYN, N. Y.—Bids are asked until July 10 for erecting additions to ten school buildings and for putting heating, ventilating and electric systems in a number of other buildings, etc. John McNamee, Chn., 131 Livingston St.——Bids are asked until July 10 for erecting a fire-engine house on the premises bounded by Washington and West Aves. and E and F Sts.; surety, $12,000. Wm. C. Bryant, Comr. Dept. of Fire, 365 Jay St.——Bids are asked until July 14 for making repairs to the finance department in city hall. T. B. Willis, Comr. Cy. Wks.

BUFFALO, N. Y.—Green & Wicks, 110 Franklin St., have prepared plans for a fireproof brick parish house for St. Paul's Church, to be built on Pearl St. opposite the church. The contracts have not yet been let.

BUFFALO, N. Y.—Bids are asked until July 8 for a new ventilating system in school No. 37. R. G. Parsons, Secy.

ELLENVILLE, N. Y.—Bids are asked until July 3 for erecting a portion of the East New York Reformatory, at Napanoch, Ulster county; bond, $100,000. Arch., John R. Thomas, 160 Broadway, New York, N. Y.; Geo. Deyo, Secy. Bldg. Comrs., Ellenville.

NEW YORK, N. Y.—Bids are asked by the department of public charities, 66 Third Ave., until July 8, for additions, repairs, etc., to the steam heating system at Infant's Hospital, Randall's Island.——The tearing down of the old buildings at 36th and 37th Sts. and Broadway and 6th Ave. for a new hotel was begun last week. The hotel will cost about $1,200,000. D. H. Schneider, O'Brien & Whiting are the real estate agents. Archs., Hill & Turner, New York.——Geo. B. Post, 33 East 17th St., has prepared plans for a $100,000 addition to the new city building at Third Ave. and 177th St.

NEW YORK, N. Y.—Plans have been filed by the University of the City of New York, University Heights, for a one-story stone library and geological museum, to cost $50,000. Archs., McKim, Meade & White, 160 Fifth Ave., and by the Western Electric Co., Thomas and Greenwich Sts., for a 10-story factory building to cost $100,000.——James Lord Brown has prepared plans for a new court house at Madison Ave. and 25th St. for the Appellate Division of the Supreme Court. The building will be 150 × 50 ft. and is estimated to cost, exclusive of lighting and heating apparatus, about $700,000.

YONKERS, N. Y.—Plans are being considered by the aldermen for a new police station.

PATERSON, N. J.—Bids are asked until July 17 for constructing an addition to school No. 10, at Warren and Mercer Sts. Arch., Marinus Houman, 274 Market St., Paterson; Ralph Baer, Chn. Com.

PHILADELPHIA, PA.—It is reported that the University Club, 1316 Walnut St., proposes to issue $75,000 in bonds for erecting a new house at 1510 Walnut St.

PITTSBURG, PA.—The building committee of the Third Presbyterian Church is considering new sites for the structure. Calvin Wells, Chn.

PITTSBURG, PA.—H. C. Gearing, Arch., is preparing plans for an exchange building for the Farmers', Merchants' and Manufacturers' Sample and Commission Exchange. The building will be 250 × 130 ft. and is estimated to cost about $150,000. J. M. West, of Pittsburg, is interested.

HARRISONBURG, VA.—W. E. Spier, of Washington, D. C., has been awarded the contract for constructing the new county court house in this place, at $52,700.

RALEIGH, N. C.—The North Carolina Agricultural & Mechanical College in this city will erect an additional brick building to be used as a laboratory and lecture hall, with a greenhouse attachment. The building will be 150 × 50 ft., three stories and completely equipped. Pres., A. Q. Haladay, Raleigh; Prof. Massey, of the Faculty, has the management of this matter, to whom all communications should be sent.

THOMASTON, GA.—M. H. Sandwich, County Clk., received the following bids June 19 for erecting a brick county jail in this city:

Fred Wagoner, Atlanta, Ga.	$5,999
Jasper Construction Co., Jasper, Ala.	$4,125 to 6,620
S. P. Shank, Lagrange, Ga.	7,500 to 8,500
Diebold Safe & Lock Co., Canton, O.	5,650 and 7,994
Pauly Jail Co., St. Louis, Mo.	5,732 to 6,750
*Manly Mfg. Co., Dalton, Ga.	3,987 to 5,983

*Awarded contract at $4,961.

CLEVELAND, O.—Arrangements are being made for a 12-story office building at the corner of the Public Square and Ontario St., on property owned by Chas. Ettinger.

CHICAGO, ILL.—Shepley, Rutan & Coolidge, Venetian Bldg., Chicago, and Boston, Mass., are preparing plans for a $40,000 residence on North State St. for Edward L. Brewster.——J. J. Egan, 85 Dearborn St., has completed plans for a 4-story wing to the Mercy hospital at Calumet Ave. and 26th St. to cost $35,000.——E. H. Turnock, 110 Randolph St., has completed plans for an 8-story apartment house at Indiana Ave. and 18th St. to cost $225,000.——Chas. S. Frost, 502 Pullman Bldg., has prepared plans for a $35,000 residence at Greenwood Ave. and 39th St. for John B. Lord.——The Chicago, Rock Island & Pacific, the Pennsylvania and the Lake Shore & Michigan Southern railways have in project the erection of a transfer and passenger station at Englewood as soon as the tracks have been properly elevated. The structure will be built at the intersection of the above companies' lines.——T. N. Jamieson, Supt. Pub. Service, has recommended for acceptance the following bids for work on the new Illinois St. jail: Cell work, Van Dorn Iron Works, Cleveland, O., $50,458; cement work, Schillinger Bros. Co., Chicago, $9,700; plumbing, W. R. Thompson, Chicago, $15,983; structural iron, J. G. Wagner, Chicago, $2,886; elevators, Crane Elevator Co., Chicago, $5,800; steam fitting, Wm. Sullivan, Chicago, $9,100; sheet metal, James A. Miller, Chicago, $6,483.

CHICAGO, ILL.—Bids are asked until July 9 for annunciator indicators for elevators, elevator door operating mechanisms, electric elevators and cast-iron fascia plates in well holes of elevators, and until July 29 for metal book stacks for the Chicago Public Library in Dearborn Park. Archs., Shepley, Rutan & Coolidge, Venetian Bldg., Chicago, and 122 Ames Bldg., Boston, Mass.; W. B. Wickersham, Secy. Bd. Directors, City Hall.

FOREST CITY, IA.—This city is reported to have tendered the county $20,000 to aid in the construction of a county court house in this city.

LE MARS, IA.—It is stated that the Illinois Central R. R. Co. is about to erect a new passenger station in this city.

OMAHA, NEB.—A committee has been appointed by three of the railway companies centering in this city to investigate the advisability of erecting a union passenger station. D. J. Whittemore, Ch. Engr., Chicago, Milwaukee & St. Paul Ry. Co., Chicago, Ill.; and T. E. Calvert, Gen. Supt. Burlington & Missouri River R. R. Co., Lincoln, Neb., are on the committee.

GALVESTON, TEX.—Local papers state that the Galveston Wharf Co. has voted to erect two new grain elevators at a cost of about $200,000.

LA JUNTA, COLO.—The construction of a county court house to cost about $15,000 is under discussion. J. C. Vrooman, Chn. County Comrs., La Junta.

PORTLAND, ORE.—Bids are asked until July 23 for furnishing and erecting the metal work for the North Head Light Station, Wash. Capt. W. L. Fisk, U. S. Light House Engr., Portland.

SAN FRANCISCO, CAL.—It is reported that the supervisors have selected the designs of Shea & Shea, 26 Montgomery St., for the new municipal building to be erected on the site of the old City Hall on Kearney St. Arrangements will be made at once for receiving bids for the construction of the building. J. A. Russell, Clk.——The St. Luke's Church is to be torn down and a new structure erected in its place. It is proposed to expend $100,000 on the building.

HOLBROOK, ARIZ.—It is stated that the county is about to issue $15,000 in bonds for a jail and court house in this place.

SANTA FE, N. MEX.—The Sisters' Sanitarium in this city was burned recently, causing a loss of about $100,000, according to reports.

MEXICO, MEX.—It is reported that the President has been authorized by Congress to spend $500,000 to buy a plot of land and start the construction of a building for the Chamber of Deputies and the Senate. The building will cost approximately $2,000,000.

WATER-WORKS.

SORRENTO, ME.—The Frenchman's Bay & Mount Desert Land & Water Co. is constructing works with a supply from Long Pond, seven miles distant. It is expected to have the pipe line completed to within one mile of town by July 1, where connection will be made with the old surface line for the summer season, after which construction will be resumed and the new plant completed. Supt., W. H. Lawrence; Pres., Frank Jones, of Portsmouth, N. H.

GREENVILLE, N. H.—Alvin Greene writes us that it would be well for anyone desiring a franchise to look up this town with a view to constructing works.

VERGENNES, VT.—The city contemplates putting in a filter. C. A. Hoffnagle, Supt.

AMESBURY, MASS.—The Powow Hill Water Co. contemplates laying about a mile of 6-in. extensions and spending $10,000 for an additional water supply. E. R. Sibley, Treas.

BARRE, MASS.—The Barre Water Co. will riprap the banks of the reservoir. Geo. W. Cook, Supt.

CLINTON, MASS.—Chas. A. Allen, of Worcester, has reported on four plans for the improvement of the works, and has recommended that the level of Heywood's Pond be raised 15 ft. by building a dam and the basin cleaned, etc., at a cost of nearly $50,000; a new main, estimated to cost $102,000, will soon be required; total cost of needed improvements $160,000.

EAST PEPPERELL, MASS.—F. L. Fuller, of Boston, is preparing plans for works for fire protection in Babbatssett and depot villages, according to reports.

FALL RIVER, MASS.—The Roberts Iron Works Co., of Cambridgeport, has been awarded the contract for four new boilers for the pumping station.

LAWRENCE, MASS.—The contract for pipelaying for the new high-service system has been awarded to Wm. S. Marsh, of Lawrence, at $6,998. A. H. Salisbury, Supt.

LYONS FALLS, MASS.—The Beauty Spring Water Co. was incorporated June 29, capital stock $3,000, by H. C. Markham, R. E. Davis and others. We stated last week that bids would soon be asked for constructing the plant.

METHUEN, MASS.—This town contemplates laying 2½ miles of additional mains and will drive additional wells. J. Alfred Welch, Supt.

PEABODY, MASS.—About 11,000 ft. of 6-in. extensions are contemplated. Andrew N. Jacobs, Supt.

NEW LONDON, CON.—This city contemplates securing an additional water supply for manufacturing purposes. W. H. Richards, Supt.

TORRINGTON, CONN.—The 4-in. mains are to be replaced by larger pipe. Chas. L. McNeil, Secy. Torrington Water Co.

ALBANY, N. Y.—This city is investigating the question of filtration. Geo. I. Bailey, Supt.

BATAVIA, N. Y.—The aldermen ordered over a mile of new water mains at the meeting June 24.

BELMONT, N. Y.—The contract for constructing works, as advertised in Engineering News, has been awarded to O'Connor & Mackaye, of Syracuse, at $24,300, according to reports; bonds not yet sold. H. A. Barney, Secy.

BUFFALO, N. Y.—The commissioners of public works opened the following bids June 24 for the construction of a 12-in. fire boat water supply pipe in Washington St. between Buffalo Harbor and Genesee St.: J. H. Ruckel & Co., $27,825; Hurley & Stygall, $29,850; Mensch Bros., $28,700; George and Thomas Dark, Jr., $27,938; John Harrer, $21,970; John Irlbacker, $27,000; George W. Moore, $26,994; all Buffalo men.——The commissioners of public works have asked the council for permission to advertise for proposals for another 30,000,000-gallon pumping engine. The council is expected to grant the permission.

DANSVILLE, N. Y.—An election will be held July 5 to vote on the construction of works; supply from springs at an elevation of 800 ft. above the village. J. F. Witmer, Engr., Buffalo.

DE RUYTER, N. Y.—Bids are asked until July 15 for constructing works. A. W. Francis, Chn. Comrs.

GENEVA, N. Y.—A press report states that the water commissioners have offered $125,000 for the plant, but the company asks $175,000; there is talk of new works.

GRANVILLE, N. Y.—A new pump will be required in another year and also a new power house. J. E. Seely, Secy.

NEWTOWN, N. Y.—The Citizens' Water Supply Co. has purchased four miles of pipe for extensions. William F. Clapton, Supt.; G. A. Roullier, Engr., Flushing.

NIAGARA FALLS, N. Y.—At a recent meeting of the board of public works plans were discussed for a 6,000,000-gallon filter plant; estimated cost, $65,000 to $75,000, including buildings. W. W. Read, Cy. Engr.

PLEASANTVILLE, N. Y.—It is reported that this village is investigating the cost of works. Address E. P. Swift.

SCHENECTADY, N. Y.—Bids are asked until July 8 for the purchase of $35,000 in bonds, of which $30,000 is a water loan and $5,000 a sewer loan. H. W. Dennington, Cy. Treas.——Projected improvements include the relaying four miles of cement-lined pipe with cast-iron pipe of larger size, and setting 66 new fire hydrants. Geo. T. Ingersoll, Supt.

SCHENEVUS, N. Y.—The Schenevus Village Water-Works Co. is contemplating the addition of a pumping plant to provide against emergencies in dry weather. M. E. Baldwin, Supt.

SHERBURNE, N. Y.—It is proposed to replace 6,000 ft. of 4 to 2-in. pipe with 8 to 4-in. pipe. W. E. Davis, Supt.

WAVERLY, N. Y.—The Waverly Water Co. will make some extension of its mains this year.

WEST TROY, N. Y.—W. F. Ross, of Rochester, and others, have purchased a controlling interest in the works and it is stated that $35,000 will be spent in building a new dam and making other improvements.

ASBURY PARK, N. J.—The only improvements now projected are a boiler and stack. G. H. Coffin, Supt.

ALLEGHENY, PA.—Bids are asked until July 6 for the construction and erection of a 250-HP. water-tube boiler, and one 5-ring steel tank of 240,000 gallons capacity; also for furnishing water pipe, valves, and other supplies. Robt. McAfee, Dir. Pub. Wks.

CORAOPOLIS, PA.—Edeburn & Cooper, 410 Grant St., Pittsburg, are reported as preparing plans for a $50,000 water-works plant at this place; supply from Ohio River.

GETTYSBURG, PA.—The Gettysburg Water Co. is spending $10,000 in securing better fire protection. W. H. Dechant, Engr., Reading, Pa.; Charles McCurdy, Pres.

IRWIN, PA.—An election will be held July 14 to vote on an issue of $55,000 in bonds for the construction of waterworks.

LEWISBURG, PA.—The Lewisburg Water Co. contemplates the construction of an additional stand-pipe.

PITTSBURG, PA.—A press report from Greensburg states that the Puritan Water Co., noted last week as incorporated, will soon construct a large reservoir in Unity township.

PITTSBURG, PA.—The mayor has signed an ordinance authorizing him to appoint a commission of eight men, two of whom must be physicians, to investigate the necessity of a filter plant in connection with the Brilliant station.

QUARRYVILLE, PA.—The Quarryville Water Co. proposes to secure additional springs to increase the water supply.

TYRONE, PA.—A contract will soon be awarded by the Tyrone Gas & Water Co., for a dam 550 ft. long and 25 ft. high on Sink Run, the present source of water supply; also an extension of the mains. Thos. J. Humphreys, of Philadelphia, is preparing specifications; C. H. Dieffenbaugh, Supt.

READING, PA.—A new pumping main five miles in length is proected. Emil L. Neubling, Supt.

WILKES BARRE, PA.—The Spring Brook Water Co. is reported to have decided to build a masonry dam 65 ft. high about 12 miles above the intake at Spring Brook, at a cost of about $100,000. Alexander Potter, Ch. Engr., 137 Broadway, New York.

MILFORD, DEL.—The water mains will be extended this summer. W. Thomas Banning, Supt.

MOUNTAIN LAKE PARK, MD.—The Mountain Lake Park Association will construct works in the near future; preliminary surveys and plans made; water supply from springs. L. A. Rudisill, Supt.

FRONT ROYAL, VA.—The Royal Water Co. will lay 10,000 ft. of 4-in. and 5,500 ft. of 2 and 1-in. extensions. H. L. Cook, Pres.

NORFOLK, VA.—This city is testing for a water supply from artesian wells. R. Y. Zachery, Supt.

NEW MARTINSVILLE, W. VA.—It is reported that the question of water-works will be voted upon this week, after which B. F. Millar, of Wheeling, will prepare the plans, if the propostion carries.

BEAUFORT, S. C.—The Beaufort Water-Works Co. has contracted for a pump and stand-pipe and probably for mains, though the health regulations prevent the laying of water mains until October. At present the system will be built only in the business portion of the town, but it will be extended later. C. C. Townsend, Supt.

CHESTER, S. C.—Perry Andrews, of New York, who is said to have recently completed wells at Newberry and Laurens, has been awarded the contract for an artesian well at this place.

CORDELE, GA.—The council has ordered one-half mile of extensions. F. M. Floyd, Supt.

HAWKINSVILLE, GA.—It is reported that $40,000 in bonds has been voted for water-works, electric lights and sewers.

CRESCENT CITY, FLA.—Another 6-in. well is to be sunk, which it is stated will give about 30-HP. for fire service. C. H. Cash, Engr.

PENSACOLA, FLA.—The Escambia County Water-works Co. has been organized with a capital stock of $50,000 to supply water in this city and suburbs; Pres., Louis Boley; W. H. Kilber, and Charles Krueger are interested.

ALEXANDRIA, LA.—A 400,000-gallon reservoir is projected. R. F. Thompson, Supt.

FRANKLIN, LA.—An election was held June 29 to vote on the construction of works to cost $20,000; if carried bids will be asked at once for the construction. W. K. Harbreck, Engr., New Orleans; L. B. Tarlton, Mayor.

LAKE CHARLES, LA.—The Lake Charles Ice, Light & Water Co. will probably lay about 1½ miles of extensions in the fall, putting in a fire hydrant for each 400 ft. of additional main.

NEW IBERIA, LA.—H. A. Cammack writes us that water-works and an electric light plant will probably be constructed next year. We noted June 18 that a committee was investigating plants in other cities.

GREENVILLE, TENN.—About 100 tons of pipe and 15 hydrants will be added as soon as the necessary financial arrangements are completed. H. Reaves, Pres.

CATLETTSBURG, KY.—The Catlettsburg, Kenova & Ceredo Water Co. is planning to extend its mains to Kenova and Ceredo, W. Va.

NEWPORT, KY.—A new 5,000,000-gallon pump will be needed within a year or two. John Surran, Supt.

SHELBYVILLE, KY.—The Shelbyville Water & Light Co. contemplates certain changes in its engine room. James Stewart, Supt.

CINCINNATI, O.—The following bids were received June 29 for furnishing complete a steel tank 40 ft. diameter and 70 ft. high, Mount Auburn tank No. 2:

Tippett & Wood, Phillipsburg, N. J.	$13,519
Riter & Conley, Pittsburg, Pa.	10,192
L. Schreiber & Sons Co., Cincinnati, O.	9,811
Reeves Bros., Alliance, O.	6,895

CLEVELAND, O.—Bids will soon be asked, according to reports, for the construction of an aqueduct 6 ft. in diameter connecting tunnel shaft and pump well in the new engine house; also for the foundations of the building, pump well, boiler house, etc.

DELAWARE, O.—The Delaware Water Co. contemplates the purchase of an air compressor to force water from deep well. C. W. Wiles, Supt.

EAST CLEVELAND, O.—An election will be held July 13 to vote on an issue of $35,000 in bonds for water-works. E. D. Burton, Mayor; H. B. Chapman, Clk.

LANCASTER, O.—This city has awarded contracts for new boilers and boiler house for the water-works. Louis J. Snyder, Supt.

WADSWORTH, O.—R. F. Weaver, owner of the works, writes us that a pumping station will be added next season.

XENIA, O.—The Xenia Water Co. will put in a new pump and 100-HP. boiler. Geo. F. Cooper, Supt.

BLOOMINGTON, IND.—The water-works plant will be sold at receivers' sale Aug. 12; construction of the works was begun in 1892, and the plant has been in the receivers' hands for 18 months. George Champe, Cy. Engr.

MARION, IND.—A new reservoir is now building. Henry F. Clunk, Secy.

ROCKPORT, IND.—The Rockport Water-Works Co. proposes to extend the suction pipes into sand bar in Ohio River. A. H. Kennedy, Supt. and Engr.

CHELSEA, MICH.—It is reported that F. P. Glazier has been awarded the contract for a water supply at this place.

GRAND LEDGE, MICH.—The Chase Construction Co., of Detroit, Mich., is reported to have been awarded the contract for constructing works, at $24,200, exclusive of wells.

CAMBRIDGE, ILL.—Contracts, for which bids were opened June 22, as advertised in Engineering News, have been awarded as follows: Addyston Pipe & Steel Co., pipe and castings, $4,851; Michigan Brass & Iron Works, hydrants, $667; Rensselaer Mfg. Co., valves and boxes, $193; A. White, of Geneseo, Ill., pipelaying, $1,989; Otto Gas Engine Co., gas engines and attachments, $1,470; Deane Steam Pump Co., power pump, $625; Henion & Hubbell, Chicago, deep well pump, $750; Frost Mfg. Co., Galesburg, Ill., steel work of water-tower, $1,269; masonry, brick and carpenter work of building, tower, reservoir, etc., to be done by local parties. Geo. Cadogan Morgan, Engr., 1012 New York Life Bldg., Chicago.

CERRO GORDO, ILL.—Bids are asked until July 22 for constructing water-works, as described in our advertising columns. E. A. Barnwell, Village Clk.; Chas. F. Sturtevant, Consult. Engr., 320 South 3d St., St. Louis.

CHAMPAIGN, ILL.—The water company contemplates sinking additional wells and increasing its pumping plant. John N. Beers, Supt.

CHICAGO, ILL.—Bids are asked until July 3 for constructing a water tunnel 10 ft. internal diameter under Lake Michigan. W. D. Kent, Comr. Pub. Wks.

CLINTON, ILL.—The city will extend the mains in the near future. J. E. Moffett, Supt.

DOWNER'S GROVE, ILL.—This village is about to put in an air lift and will lay about two miles of mains this year. J. D. Fowler, Supt.

JOLIET, ILL.—F. W. Dewey, Supt., writes us that an entirely new system of enlargement will be submitted to vote of the people soon.

MATTOON, ILL.—The water company will make some extensions of the mains this year. H. W. Clark, Supt.

MINONK, ILL.—M. H. Pfaffle, Cy. Clk., writes us that a brick tower with steel tank and 2,000 ft. of mains are projected.

BLACK RIVER FALLS, WIS.—The council has voted to extend the mains 12,000 ft., according to reports.

FON DU LAC, WIS.—The city has ordered three or four extensions which the water company will probably make this summer. W. H. Masson, Supt.

MADISON, WIS.—The city will place 300 meters on old services aside from new takers. John B. Heim, Supt.

RIVER FALLS, WIS.—The city contemplates laying 3,000 ft. of additional 4-in. mains.

WAUWATOSA, WIS.—There is talk of incorporating this village as a city, to secure the construction of works in a short time. L. G. Wheeler, is interested.

GALVA, IA.—S. K. Challman, Mayor, writes us that the Challenge Wind Mill & Feed Mill Co., of Batavia, Ill., has been awarded the contract for constructing works, at $2,948; other bidders were Fremont Turner, Des Moines; U. S. Supply Co., Omaha; Jackson & Moss, Des Moines; U. S. Wind Engine & Pump Co., Batavia; W. F. Clements, Agency, Ia.; George E. King, Des Moines (tower and tank only); Fairbanks, Morse & Co., National Tube Works, Chicago (valves, hydrants, etc.).

JEFFERSON, IA.—M. E. Hall, Water Comr., writes us that two plans are under consideration for improvements: Surface reservoir 65 ft. deep and 15 ft. diameter with duplex pump, and air lift pump with capacity of 8,000 to 10,000 gallons per hour.

TIPTON, IA.—This city intends to change its pumping system. William Dean, Supt.

WELLMAN, IA.—E. Bradford, Recdr., writes us that money has been appropriated for works to cost $5,000, and that an engineer will soon be engaged to prepare plans. H. S. Sample, Lewis King and A. O. Toppin are the committee.

WILLIAMSBURG, IA.—H. E. Hull, Mayor, writes us that larger pumps are contemplated but nothing definite has been decided; may adopt meters.

ALEXANDRIA, MINN.—James Fitzgerald, Recdr., writes us that this village proposes to sink two deep wells for a larger and better water supply.

NEWTON, KAN.—The city clerk writes us that J. A. Haskett, of Fairbanks, Morse & Co., Kansas City, has been engaged to prepare plans and specifications for proposed extensions, with supply from wells seven miles south of city.

BEATRICE, NEB.—Bids are asked for a water supply. S. K. Davis, Comr.

DAVID CITY, NEB.—The water mains will be extended to connect dead ends as soon as financial conditions will permit. E. B. Taylor, Cy. Clk.

OMAHA, NEB.—A. B. Hunt, one of the receivers of the American Water-Works Co., writes us that among the improvements projected is a new 48-in. main, from Florence to Omaha, seven miles.

TRIPP, S. DAK.—John McClain, Town Clk., writes us that no work has yet been done, although it is the intention to put in works in the near future.

YANKTON, S. DAK.—The artesian well will probably be made deeper. Anton Veling, Supt.

VALLEY CITY, N. DAK.—The city will make some extensions this summer. Robt. Burt, Supt.

BELT, MONT.—It is reported that the Castner Coal & Coke Co. will construct a water-works system to cost $17,000, including a large reservoir on the hill. P. C. Kittle, Gen. Mgr.

WESTPORT, MO.—An election was held July 1 to vote on an issue of $75,000 in bonds for water-works and $20,000 for a city hall.

ELDORADO, ARK.—A committee has been appointed to secure estimates and arrange for the construction of water-works.

BEAUMONT, TEX.—The Beaumont Ice, Light & Refrigerating Co., lessee of the works, expects to put in a new pump this winter.

MARBLE FALLS, TEX.—The water company expects to make extensions as soon as the large cotton mills already erected are put in operation, which may not be until times are better. R. E. Johnson, Secy.

PALESTINE, TEX.—H. L. Wright, Receiver, writes us that the company expects to increase the storage capacity, extend the mains, add filters and make other improvements at an early day.

ROGERS, TEX.—At a public meeting June 22 the citizens subscribed $1,500 toward a bonus of $2,000, to be offered a company to sink an artesian well and put in water-works.

FORT RENO, OKLA.—The contract for a 30,000-gallon steel water tank, with steel trestle, has been awarded to A. J. Tullock, Leavenworth, Kan., at $4,124; the Chicago Bridge & Iron Co. bid $4,950, and Geo. W. Dudley, of St. Louis, $4,995.

LA JUNTA, COLO.—The city has contracted for another artesian well, and expects to put in new boilers this year. J. G. Howard, Secy.

LONGMONT, COLO.—This city has purchased land for an additional reservoir to have 1,000,000 gallons capacity. Chas. L. Reed, Clk. and Supt.

NEW WHATCOM, WASH.—The council authorized the purchase of 12,000 ft. of water pipe at the meeting June 16.

PUYALLUP, WASH.—A gravity system is in contemplation, but the construction will not be commenced before March, 1897. The water-works is owned by the Tacoma Gas & Electric Light Co., but we are informed that a new corporation, to be known as the Puyallup Water Co., will be formed within two months.

SEATTLE, WASH.—A committee of the city officials has visited Portland investigating the new works, with a view to the construction of a gravity system from Cedar River for this city.

ST. HELEN, ORE.—The St. Helen Light & Water Co. has been incorporated, capital stock $9,100, by H. Orchard, D. J. Switzer and A. King.

AZUSA, CAL.—Dockweiler & King have submitted plans for the proposed works; present plant can be duplicated for about $11,000, or a plant with desired improvements constructed for $20,000.

BERKELEY, CAL.—Dr. H. N. Rowell, Health Officer, has recommended that the Alameda Water Co. be required to provide a cement bottom for its reservoirs, or else cover them; rough estimate of cost is $10,000.

CLOVERDALE, CAL.—The Riverside Water Co. has had surveys made for a gravity water supply; present supply is pumped from well to reservoir. J. H. Kleiser, Supt.

LOS ANGELES, CAL.—The "Journal" states that John A. Pirtle, owner of the West Los Angeles Water Co., has contracted with the Excelsior Wooden Pipe Co., and the General Construction Co. for the construction of a pipe line between the galleries near Burbank and the city, at a cost of $107,962.

PALO ALTO, CAL.—Bids will probably be asked so that contracts can be awarded this month for constructing works, for which $40,000 in bonds was recently voted. C. E. Moore, Engr., Santa Clara; H. W. Simpkins, Town Clk.

SANTA BARBARA, CAL.—J. K. Harington, Cy. Engr., has submitted plans for a reservoir, tank and mains for supplying water for street sprinkling purposes; it is proposed to have the system so constructed that it can be connected with the mains of the Santa Barbara Water Co.

SANTA BARBARA, CAL.—It is stated that an election will soon be held to vote on an appropriation of $25,000 for a pumping plant, reservoir, etc., for using sea water for street sprinkling, sewer flushing and fire protection.

SANTA MONICA, CAL.—C. S. Dales, Town Clk., writes us that the following contracts were awarded June 15 for furnishing two tanks and laying pipe from the beach for street sprinkling: Hill & Nourse, tanks, $1,280; Fred O. Bursley, pipe and pipelaying, $472; T. R. Scheckles, concrete foundation for tanks, $207; Lang & Middlekauff, laying pipe, $1,373; all local bidders.

PARRSBORO, N. S.—The contract will probably be awarded by the town next winter for a gravity supply from mountain brooks; present supply from well; population, 2,000.

YARMOUTH, N. S.—About two miles of extensions are projected. Geo. H. Robertson, Supt.

SUMMERSIDE, P. E. I.—It is expected that bonds will be issued next year and a new water supply secured from Pickering's Brook; present supply from wells; population, 3,500. Address W. K. McKay.

STURGEON FALLS, ONT.—It is reported that plans have been prepared for constructing works estimated to cost $17,500 and an electric light plant to cost $2,500.

SANDON, B. C.—J. M. Harris writes us that pipe, etc., has been purchased from Crane & Jack, of Portland, Ore., and the works will be constructed by day labor; supply from a creek at an elevation of 400 ft. above the village; estimated cost of works, $10,000; Harris & Kelly are the owners.

IRRIGATION.

THERMOPOLIS, WYO.—Press reports state that work on an irrigation project in the Owl Creek Basin of the Big Horn Valley is being pushed by the Co-operative Ditch Co. The company is composed of a number of the small ranchmen of the region. The work of building the ditches and reservoirs is being done on a co-operative basis. The estimated cost of the ditch is $1 an acre for the land it will cover.

PRINEVILLE, ORE.—E. W. Gile and William Stewart, of Prineville, have been awarded the contract for building the Prineville Land & Livestock Co.'s irrigating ditch in Summit prairie. The ditch will be two miles in length, with a capacity of 200 miner's inches of water. It is stated that the contractors will commence work at once.

SANTA FE, N. MEX.—The water company is building an additional reservoir for irrigation purposes. S. H. Day, Pres., Santa Fe; J. M. Howells, Engr., San Diego, Cal.

SEWERAGE.

BANGOR, ME.—It is proposed to construct 5,600 ft. of 15 to 8-in. pipe sewers at a cost of $4,200; average cut, 7 ft. We are informed that the construction of sewers is under the direction of the superintendent of sewers. Gilbert S. Vickery, Cy. Engr.

PORTLAND, ME.—Bids are asked until July 15 for constructing about 2,600 ft. of the North Side intercepting sewer, as stated in our advertising columns. Geo. N. Fernald, Comr. Pub. Wks.

CONCORD, N. H.—W. B. Howe, Cy. Engr., writes us that action on the Gile St. sewer has been laid over by the council until July 14.

FALL RIVER, MASS.—Bids are asked until July 7 for the purchase of $100,000 of 4% sewer bonds. Chas. P. Brightman, Treas.

LYNN, MASS.—E. H. Smith, Cy. Engr., writes us that nothing has been determined upon in regard to extensions of the sewer system, except in the matter of a few small pipe sewers. Trunk sewers are urged in both the easterly and westerly sections of the city.

NEW HAVEN, CONN.—The committee is considering the construction of sewers in six streets. F. E. Whittaker, Chn. Com.——T. F Maher has been awarded the contract at $7,530 for constructing a sewer in View St., and A. Carroll for a sewer in Edward St., $2,282.

BROOKLYN, N. Y.—Bids are asked until July 7 for constructing sewers in two streets. T. B. Willis, Comr.

JAMAICA, N. Y.—J. J. McLaughlin, Jamaica, is reported to have prepared new plans for the proposed system which have been approved by the sewer commissioners.

JERSEY CITY, N. J.—Bids are asked until July 7 for constructing 3,600 ft. of 20 to 12-in. pipe, and 3,600 of 34 to 24-in. brick and 750 ft. of 28-in. steel pipe sewers, the steel pipe and 700 ft. of the 34-in. brick sewers are to be on piles. The work will include about 4,000 cu. yds. of rock excavation, 20,000 lin. ft. of piling, 75 cu. yds. of concrete, 8,500 lbs. of iron bolts and spikes, 125 receiving basins, etc. Geo. T. Bouton, Clk. St. Comrs.

PATERSON, N. J.—We are informed that the contract for about 1,200 ft. of 36-in. brick sewer, average cuts 12 ft., will be awarded in about three weeks. Wm. Ferguson, Cy. Engr.

ALLEGHENY, PA.—Bids are asked until July 6 for constructing sewers in two streets, and for resurfacing about 5,000 ft. of park walks. Robt. McAfee, Dir.

BRADFORD, PA.—Bids are asked until July 6 for constructing sewers in three streets. James A. Lindsey, Cy. Clk.——It is stated that an election will be held July 10 to vote on the question of issuing bonds for sewers and paving.

HARRISBURG, PA.—Ward & Stucker, Harrisburg, were the lowest bidders June 30 for three sewers, at $235, $622 and $868. John McConky, Highway Comr.

READING, PA.—The following bids were received June 12 for constructing an intercepting sewer, as advertised in Engineering News; Henry Eppihimer, Pres. Pub. Wks.; E. Chamberlain, Cy. Engr.:

	Brick.	Concrete.
Moore & DeGraff, Buffalo, N. Y.	$255,979	$195,369
R. S. & D. Peoples, Philadelphia (irregular).		
Sloan, McIlvain, Ott Bros. & Co., Allegheny City, Pa.	205,756	185,253
Wilson, Jackson & Co., Chicago, Ill.	195,872	154,239
Hanna & Reilly, Chester, Pa.	309,747	207,104
Jacob Meyer, Reading (one section only).		
Benj. F. Dutton, Philadelphia (two sections).		
M. Honan & Sons, Chester, Pa.	181,709	188,331
Bowman Bros, McKeesport, Pa.	218,846	200,495
Wm. H. H. Achuff, Philadelphia	303,865	303,865
Focht & Brusstar, Reading	262,493	224,613
B. E. Malone, Lancaster, Pa.	251,821	175,004
Hawman Bros., Reading	232,311	196,237
Jos. P. O'Reilly, Reading (one section only).		
Sullivan, DeHahn & Kennedy, Phila.	271,363	244,876
T. M. Lesher & Co., Easton, Pa.	272,250	251,448
P. Frank Hawman, Reading	263,816	219,849
Ahrends & Co., Reading	249,313	208,532
T. Chalkley Hatton, Wilmington, Del.	(irregular).	
O. M. Weand & Co., Reading	237,858	198,871

It is probable that the board will recommend that a part of the work, the smaller sections of the sewer, be built of concrete material and the larger sections of brick.

WASHINGTON, D. C.—Bids are asked by the district commissioners until July 6 for furnishing sewer brick.

HAMPTON, VA.—Bids are asked until July 14 for constructing a sewage pumping plant at the Southern Branch of the National Home for Disabled Volunteer Soldiers, near Hampton. Maj. Wm. Thompson, Treas.; Wm. C. Gunnell, Engr., Hampton.

PADUCAH, KY.—The city is now figuring on putting in a sewer system.

BELLEFONTAINE, O.—It is reported that bonds will probably soon be issued for constructing a system to cost about $60,000.

DAYTON, O.—Bids are asked until July 7 for constructing 1,330 ft. of 18 and 12-in. pipe sewers and until July 21 for constructing 4,250 ft. of 36 and 30-in. brick and 1,060 ft. of 24 and 12-in. pipe sewers. Peter Weidner, Pres. Bd. Cy. Affairs.

PANA, ILL.—The council has accepted plans prepared by J. W. Duppert for a system to cost about $63,000. It has been decided to spend $15,000 this year to begin the construction.

TELLURIDE, COLO.—A Denver company proposes to construct a sewer system in this place which will be rented to the city. A. M. Reed is interested.

OAKLAND, CAL.—Bids are asked until July 6 for constructing 24 to 6-in. pipe sewers in a number of streets. J. W. Tompkins, Cy. Clk.

PHOENIX, ARIZ.—It is reported that a system for this city is under discussion.

GARBAGE DISPOSAL—STREET CLEANING.

UTICA, N. Y.—Bids are asked until July 3 for the collection and removal of garbage. J. A. Cantwell, Cy. Clk.

HALIFAX, N. S.—Bids are asked until July 27 for the construction of a garbage disposal plant, as stated in our advertising columns. F. W. W. Doane, Cy. Engr.

STREETS AND ROADS.

BANGOR, ME.—We are informed that it is proposed to pave 5,000 sq. yds. with granite blocks at a cost of $10,000. All paving is done under the direction of the city engineer. Gilbert S. Vickery, Cy. Engr.

NORTH ADAMS, MASS.—Local papers state that the Massachusetts State Road Commission will build three miles of macadam road in this city and two miles in Williamstown.

PROVIDENCE, R. I.—Bids are asked until July 6 for grading and curbing Eddy St., Johnston. Horace P. Martin, Chn. Com., 161 Plainfield St., Johnston, R. I.

GRISWOLD, CONN.—Bids are asked until July 8 for constructing a macadam road near Pachaug, according to reports. F. H. Fanning, Selectman.

NEW HAVEN, CONN.—Bids are asked until July 15 for brick paving in Ashmun St. C. W. Kelley, Cy. Engr.

PLYMOUTH, CONN.—Bids are asked until July 8 for 2,650 lin. ft. of macadam road. Henry E. Hinman, Selectman, Plymouth.

ALBANY, N. Y.—Geo. W. Aldridge, Supt. Pub. Wks., has granted the wheelmen of this city permission to place in good condition the tow path of the Erie Canal from Thatcher St. to Port Schuyler, a distance of six miles. It is thought that this work on the Albany end of the canal is but the beginning of a movement to have the wheelmen in the various cities and villages along the canal improve the blue line side of the tow path on the Erie Canal in their localities, and that it will not be long before a riding path through to Buffalo will be provided. John A. McGinty, Secy. Wheelmen's Association, Albany.

BROOKLYN, N. Y.—Bids are asked until July 7 for brick paving in Bushwick Ave., from the present pavement to Jamaica Ave. Timothy L. Woodruff, Comr. Dept. of Parks, Prospect Park, Brooklyn; J. E. Smith, Secy.

BROOKLYN, N. Y.—Bids are asked until July 14 for granite block paving in three streets, three sureties of $10,000 to $14,250. Theo. B. Willis, Comr. Cy. Wks.——Harris & McGuire have been awarded the contract at $21,699, for 15,000 sq. yds. of macadamizing in Pennsylvania Ave. Timothy L. Woodruff, Park Comr.

FLUSHING, N. Y.—It is proposed to issue $32,000 in bonds for paving Bell Ave.

NEW YORK, N. Y.—Bids are asked by the department of public works, 150 Nassau St., until July 8 for grading, etc., in six streets and for constructing and repairing sewers in four streets.——The commissioner of street improvements of the twenty-third and twenty-fourth wards intends to lay some brick pavements soon and invites samples to be submitted at his office, 2622 Third Ave., from 4 to 5 ins. deep, 8½ to 9¼ ins. long and from 3 to 3¼ ins. wide. Parties submitting samples must be able to refer to not less than one mile of city street pavement which has been laid for two years or more and which is in good condition. Louis F. Haffen, Comr.; Joseph P. Hennessy, Secy.——The commissioner of public works has asked the board of estimate for $861,830 for paving 203,640 sq. yds. with asphalt.

ROCHESTER, N. Y.—It is proposed to pave Exchange St. with Medina blocks, at a cost of $88,000. T. S. Pulver, Cy. Clk.

TROY, N. Y.—Bids are asked until July 14 for asphalt block paving in two streets. E. Ogden Ross, Secy. Contracting Bd.

UTICA, N. Y.—Bids are asked until July 3 for asphalt paving in Whitesboro St.; bond, $12,000. J. A. Cantwell, Cy. Clk.——Baxter & Fowler, Utica, have been awarded the contract for paving with asphalt Upper Genesee St., at $22,988 and Lower Genesee St., at $18,862.

ELIZABETH, N. J.—The council has voted to macadamize portions of several streets. N. K. Thompson, St. Comr.; James J. Manning, Cy. Clk.

GLENRIDGE, N. J.—It is stated that this place voted June 30 to issue $60,000 in bonds for improving the streets. The issuing of the bonds will be deferred until the Supreme Court passes upon the legality of the proceedings, a writ of certiorari having been issued by Judge Depue. The case will not be argued until November.

JERSEY CITY, N. J.—Bids are asked until July 6 for 3,440 sq. yds. of asphalt paving, 2,250 cu. yds. of earth and rock excavation and earth filling, 8,000 sq. ft. of flagging, 3,500 lin. ft. of curb stone, etc. John C. Kaiser, Chn. Com.; Geo. T. Bouton, Clk. Comrs.

SOMERVILLE, N. J.—The county freeholders are reported as making arrangements for macadamizing Mountain Ave., from Somerset St., North Plainfield, to Terrill Road, a distance of 2¼ miles, and also the road between Bound Brook and Somerville.

VINELAND, N. J.—C. K. Landis and Marcus Fry, of Vineland, are interested in a proposed bicycle track through the low meadow land between Sea Isle City and the main Shore road, a distance of 2½ miles.

HAMMONTON, N. J.—John C. Anderson, Clk. Bd. Freeholders, has sent us a statement of the bids received June 23 for constructing about 22 miles of gravel roads, as advertised in Engineering News; contracts awarded to Ferdinando Bartilucci, of Philadelphia, Pa., at $1,899 to $2,884 a mile; other bidders were: Chas. A. Rooney, Paterson, N. J.; Wm. H. Burgess, Hammonton, N. J.; David Wescoat and Reuben Brooker, Elwood, N. J.; Ridgway & Chapman, 253 Broadway, New York, N. Y.; Thomas Oakley and Z. T. Baldwin, Atlantic City, N. J.; James Collins, South Amboy, N. J.; John Quinlan, South Amboy, N. J.; Engr., J. J. Alberton, Magnolia, N. J.

CALIFORNIA, PA.—Bids are asked until July 15 for 3,057 sq. yds. of brick paving, 1,600 lin. ft. of curbing, etc. J. I. McKenna, Burgess; O. O. Honebake, Clk.

JOHNSTOWN, PA.—The council has voted to issue $20,000 in bonds for paving, sewers, etc.

BALTIMORE, MD.—Bids are asked until July 13 for grading, curbing and paving portions of eight streets. Janon Fisher, Cy. Comr.

NEWPORT NEWS, VA.—It is reported that an ordinance has been prepared authorizing the issue of $90,000 in bonds for improving streets, constructing sewers, school buildings, etc. J. K. M. Newton, Cy. Attorney.

SAVANNAH, GA.—The county commissioners are considering the question of macadamizing Ogeechee road. J. A. G. Carson, County Comr.

COVINGTON, KY.—The court of appeals has decided that the $60,000 in bonds recently issued by the council are invalid and that an election will have to be held to decide the question.

CINCINNATI, O.—Bids are asked until July 16 for brick paving in Hackberry St. J. B. Washburn, Vice-Pres. Bd. Administration; A. P. Butterfield, Clk.

CINCINNATI, O.—Bids are asked until July 10 for brick paving in two streets. Aug. Herrmann, Pres. Bd.

CLEVELAND, O.—The council has voted to pave portions of seven streets with brick. Howard H. Burgess, Cy. Clk.

DEFIANCE, O.—Bids are asked until July 21 for 16,400 sq. yds. of asphalt paving and 10,950 lin. ft. of curbing in two streets. J. J. Malley, Cy. Clk.

BRAZIL, IND.—Bids are asked until July 7 for constructing about 14 miles of gravel roads. John J. Hoffman, County Comr.; Thos. Phillips, County Audr., Brazil.

IRVINGTON, IND.—Bids are asked for certain grading, paving, etc., according to reports. Engr., W. G. Smith, 70 East Market St.

LEBANON, IND.—The council has awarded to Porter, Bolin & Hadley, of Tipton, Ind., the contract for half a mile of brick paving at about $15,000.

MONTICELLO, IND.—The county commissioners propose to macadamize portions of five roads at a cost of about $23,000. Engr., W. P. Bushnell, Monticello; M. J. Holtzman, County Audr.

CHICAGO, ILL.—Bids are asked until July 7 for improving portions of 11 streets. W. D. Kent, Comr. Pub. Wks.

CHICAGO, ILL.—Bids are asked by the commissioners of Lincoln Park until July 6 for furnishing material to be delivered on the boulevard and lake shore between Ohio and Oak Sts. A boulevard is to be built between these streets, a distance of about a mile, as noted in our issue of last week. Pres., F. H. Winston; H. C. Alexander, Supt.

GALESBURG, ILL.—M. J. Blanding, Cy. Engr., writes us that it is proposed to pave 20,660 sq. yds. with brick at a cost of $40,055.

LA GRANGE, ILL.—John H. Esson, 1008 Chamber of Commerce, Chicago, Ill., was recently awarded the contract for the improvement of Kensington and Ashland Aves., with Galesburg No. 1 repressed brick, and on June 22 was awarded the contract for macadamizing the system of streets in Ira Brown's addition to La Grange, the total cost of improvements about $60,000.

LINCOLN, ILL.—We are informed that it is proposed to pave 10,000 sq. yds. with brick at a cost of $1.30 per sq. yd. T. S. Davy, Cy. Engr.

RACINE, WIS.—Bids are asked until July 25 for brick paving in College Ave., as stated in our advertising columns. O. Burlingame, Cy. Engr.

OTTUMWA, IA.—Bids are asked until July 6 for brick paving in Wapello St. S. D. Baker, Chn. St. Com.

ST. PAUL, MINN.—A resolution has been passed by the county commissioners for macadamizing Rice St. The question of constructing better roads throughout the county is being discussed. George Allen, Comr.

DEERLODGE, MONT.—Bids are asked until July 7 for constructing a county road. John B. Fisher, Clk., Deerlodge.

BOZEMAN, MONT.—Bids are asked until July 3 for constructing about 9,000 lin. ft. of county roads. Walter H. Sales, County Clk., Bozeman.

KANSAS CITY, MO.—Bids are asked until July 14 for grading Knox Ave., from Cleveland Ave. to the Diamond brick yard. F. J. O'Flaherty, County Surv.

PORTLAND, ORE.—O'Neil & Drew have been awarded the contract for paving Fourth St. with cedar blocks at $25,117.

OAKLAND, CAL.—Bids are asked until July 6 for macadamizing in two streets. J. W. Tompkins, Cy. Clk.

ORANGE, CAL.—Bids are asked until July 13 for paving the roadways of two bridges with asphalt. D. T. Brock, Clk. Bd. Supervisors.

SANTA BARBARA, CAL.—F. F. Flourney, County Surv., is reported as making surveys for a road to the summit of the Santa Ynez Range, a distance of about 30 miles.

WINNIPEG, MAN.—Bids are asked until July 15 for about 22,000 sq. yds. of asphalt paving. I. M. Ross, Chn. Com.; C. J. Brown, Cy. Clk.

MANUFACTURING PLANTS.

ASHLAND, ME.—It is reported that Waldo P. Lowell, Bangor, Me., will build a large saw mill. The mill will be operated by water power and a large dam will be built for this purpose. Supt., Jasper Johnson, Bangor, Me.

WORCESTER, MASS.—The Boston Paving Co. is reported as preparing to erect a plant in this city to manufacture asphaltina.

PATERSON, N. J.—The three-story brick mill of The J. C. Todd Machine Co. has been partly destroyed by fire; reported loss $35,000; about 500 men are thrown out of work.

HOMESTEAD, PA.—It is stated that the John Dunlap Co.'s purchase of a site for a tin manufactory has been closed. The buildings, which will be built this summer, will cover three acres, and the plant will employ 400 men when completed.

KENSINGTON, PA.—The Hunt Air Brake Co. is reported to have let the contract for the erection of its plant at this place. The main building will be 40 × 100 ft. The company will manufacture aluminum brakes for trolley cars.

PHILADELPHIA, PA.—The Philadelphia "Record" announces that the Arena Co. will build a skating rink and ice manufacturing plant. William Martin, F. M. Wells and Sherman R. Reed are interested.——Hales & Balling, 1200 Chestnut St., have started work on the plans for a large brick boiler-house for Barnett & Co., at Richmond and Leiper Sts. It will be one story high.

PITTSBURG, PA.—It is reported that Hubbard & Co. will build a shovel factory, two brick buildings, 120 × 300 ft., on Butler St., to cost $10,000.

POTTSTOWN, PA.—It is reported that the Glasgow Iron Co. contemplates the erection of an open hearth steel plant.

SHARON, PA.—Stock is being subscribed for a steel mill to cost $350,000; Frank H. Bull, C. H. Yeager, P. L. Kimberly, Stewart Henderson and others are interested.

CONCORD, N. C.—A company has been formed to build a medium-sized cotton mill on the co-operative plan; $25,000 of the stock was paid in last week; work on this mill will begin soon.

ALBEMARLE, N. C.—Work will begin in a few days on a cotton mill to be erected by a company of which J. W. Cannon, Concord, N. C., is president.

WINSTON, N. C.—Geo. W. Hinshaw will build a cotton mill to cost $250,000 on the Yodkin River in Surry county, at a point known as Yodkin Shoals, during the present year. Equipping will include an electric light plant.

AIKEN, S. C.—It is reported that a cotton mill to cost $500,000 will be erected here. W. B. S. Whaley, Columbia, S. C., is interested.

SENECA, S. C.—H. S. Chadwick is engineer for the 20,000-spindle mill of the Seneca Mfg. Co., and is stated to be at work on plans for the plant.

GRANTVILLE, GA.—It is stated that the Grantville Hosiery Mill Co. has been organized and will soon begin work on the erection of a $10,000 mill.

SAVANNAH, GA.—A press report states that the Georgia Car & Mfg. Co., incorporated with a capital stock of $300,000, has begun the erection of its plant here. The machinery of the plant was formerly located at Huntingdon, Pa., and was recently bought by Savannah capitalists. The company will employ 400 to 500 hands.

BIRMINGHAM, ALA.—The Jefferson Iron & Steel Co. is reported as erecting a furnace of the Hawkins pattern. It will have a daily capacity of 50 tons.

CORDOVA, ALA.—Representatives of the Nashua Mfg. Co., owners of extensive cotton mills at Nashua, N. H., are stated to have closed a deal here for the erection of a $600,000 cotton mill at this place, 30 miles from Birmingham.

MARTIN'S FERRY, O.—It is stated that the stockholders of the Aetna Standard Co. have decided to issue $200,000 worth of bonds for the purpose of erecting a large steel plant south of the Aetna mill. Wm. Findlay, Wheeling, W. Va., has a contract for part of the work.

LA FAYETTE, LA.—The Carencro Sugar Co. has completed arrangements for an increase in capital stock and the erection of a refinery in connection with its crushing plant.

MINING.

ORE HILL, N. C.—The iron mines at Ore Hill, N. C., now the property of the Greensboro, N. C., Iron & Steel Co., will begin operations this month and active work thereat will be vigorously pushed in the future. The furnaces of the Greensboro plant will be started up for the first time in a short time, and most of the ore will be obtained from the mines at Ore Hill. This plant is the one which the stockholders of the Cape Fear & Yadkin Valley R. R. intended to establish, at a cost of $7,000,000, before that road went into the hands of the present receiver (Gen. John Gill, of Baltimore), but which was not started up, nor fully completed and equipped when the financial troubles overtook the road and necessitated the abandonment of the iron and steel plant. A new company was recently formed to buy and operate the plant, and it is this company, of which ex-State Treasurer John M. Worth, his son Hal M. Worth and others are stockholders, which will now start it up, having fully equipped it in first-class working order for the purpose. The result of the working of these mines on a large scale will be watched with interest, the result having a direct bearing on prospects of others in the same section.

BAKERSFIELD, CAL.—It is stated that the owners of the Blue Chief mine have filed an appropriation of 100 ins. from Lewis Creek which will give them power to run a stamp mill which they will erect.

CENTERVILLE, CAL.—The Red Bluff "News" states that G. W. Vestal, J. C. Cowles, J. B. Woolman and others, owners of a mine near Centerville, Shasta County, will probably put a 10-stamp mill near the mine.

COPPEROPOLIS, CAL.—M. Kennedy, owner of the Maggie May mine, is reported as soon to put up a 5-stamp mill.

LOS ANGELES, CAL.—The "Times" states that Harmon & Vaughn are contemplating putting in a mill at their mine on Mount San Jacinto, near Riverside.

OAKLAND, CAL.—Phelps & Wood of this city are reported as to begin at once to run a 600-ft. tunnel on property ten miles east of Placerville. A. A. Wood will be superintendent.

SACRAMENTO, CAL.—It is reported that the Del Monte Milling & Mining Co. of this city is putting up a $10,000 quartz mill on French Creek; five stamps will be put in now and five later.

WINCHESTER, CAL.—The "Recorder" announces that the stockholders of the Leon Mine near this city have decided to erect a 20-stamp mill, and machinery will be put in to furnish water for the mill.

YREKA, CAL.—The owners of the Mabel mine are thinking of putting up a 10-stamp mill on Mill Creek, near their mine.

PRESCOTT, ARIZ.—The "Journal-Miner" contains the following: R. T. Tustin and Jas. Shirley will erect a 10-stamp mill on the Howard mine.——The Iron Springs Mining Co. has decided to add ten more stamps to its mill at the Last Chance mine.——The Crowned King mine will close down soon so that a new boiler and an electric dynamo capable of furnishing light for the mill and the mine can be put in.

TOMBSTONE, ARIZ.—It is stated that the Homestake Mining Co., of Black Hills, will soon enlarge its milling plant to an 800-stamp mill. This, it is claimed, will make it the largest stamp mill in the country.

VICTORIA, B. C.—Concentrators will be built at the Mountain Chief and Reco near New Denver this summer, according to reports.

CONTRACT PRICES.

MASONRY AQUEDUCT BRIDGE.—Boston, Mass.—The awarding of the contract for section 8 of the Nashua aqueduct, to Jones, Pollard & Co., was noted last week under Water-Works. This section is a masonry bridge 385 ft. long across the Assabet River; there will be seven arches, each having a span of 29½ ft.; width, 19½ ft.; top about 30 ft. above the water; piers will probably rest on piles at a depth of about 17 ft. below the surface of the water. The bids were as follows:

Bids Received June 4 for Constructing Section 8, Nashua Aqueduct, Metropolitan Water-Works, Boston, Mass.

Quantities.		D. J. McNiece, New York, $59,897.	Jones Pollard & Co., Baltimore, $64,676.	Washburn & Washburn, New York, $70,925.	Edw. E. Everson, Providence, $72,243.	W. H. Ward, Lowell, J. T. Tank, Providence, $72,415.	Thos. Dwyer, New York, $74,270.	E. D. Smith & Co., Philadelphia, $74,479.	Steward & McDerment, New York, $75,793.	R. A. Malone & Co., Boston, $78,977.	Grace & Hyde Co., Chicago, $80,105.	F. E. Shaw, Providence, $82,805.	Jones & Meehan, Boston, $86,375.	F. S. Robbins, Worcester, $88,372.	Woolfolk & Sillery, Mt. Vernon, N. Y., $88,664.	A. W. Bryne Cons't'n Co., W. Medford, $89,485.	Blagen & Bush, Marlboro, $97,475.	Geo. S. Good & Co., Lock Haven, $100,952.
Cofferdam	550 lin. ft.	$6.00	$6.58	$10.00	$12.00	$8.00	$10.00	$6.60	$7.00	$19.75	$9.50	$6.00	$20.00	$15.75	$20.00	$30.00	$14.00	$28.00
Round piles in place	12,000 " "	.25	.175	.20	.20	.20	.68	.33	.16	.30	.16	.15	.25	.30	.40	.20	.26	.28
Excavation below grade	1,500 cu. yds.	2.00	.69	3.00	1.50	1.50	2.00	1.65	1.75	1.50	2.00	3.00	2.00	3.00	1.50	1.00	1.70	2.00
Excavation above grade	1,200 " "	.65	.39	.50	.55	.60	.75	.44	.30	1.00	1.00	.50	.50	.75	.65	1.00	1.00	.90
Riprap	100 " "	1.50	2.34	1.50	2.00	1.50	4.00	1.65	1.00	3.00	3.50	3.00	3.00	6.00	2.00	3.00	3.00	3.00
Portland cement concrete masonry	1,000 " "	6.00	6.24	6.00	7.00	8.50	13.00	5.98	6.50	7.00	6.30	9.00	7.00	12.00	9.15	7.00	7.00	9.00
Am. cem. concrete masonry, first quality	650 " "	4.30	4.19	4.50	5.00	5.00	5.00	3.96	5.00	5.00	3.90	7.00	5.50	7.00	5.65	6.00	5.00	8.25
Am. cem. concrete mas'ry, second quality	1,100 " "	3.90	3.95	4.00	4.86	4.00	4.00	3.57	4.00	4.75	3.50	6.50	4.00	6.00	4.75	5.00	4.25	8.00
Ashlar masonry	630 " "	18.00	17.68	24.00	18.90	18.50	18.00	24.00	21.00	17.00	23.00	23.00	21.00	15.00	24.00	21.00	29.00	24.00
Voussoir masonry	600 " "	21.00	31.43	24.00	27.00	23.00	24.00	28.90	33.00	24.00	33.00	28.00	35.00	22.50	27.00	32.00	46.00	30.00
Cut stone masonry	130 " "	22.00	27.75	24.00	40.00	33.00	48.00	40.00	37.50	38.00	50.00	37.50	40.00	26.00	35.00	34.00	54.00	40.00
Brick masonry, in Am. cement mortar	760 " "	8.20	8.83	9.75	8.00	14.00	9.00	11.00	12.50	12.50	11.50	12.50	12.00	18.00	12.93	12.00	12.00	13.50
Brick masonry, in Portland cement mortar	260 " "	9.50	9.70	13.00	13.00	16.00	10.00	12.00	15.00	14.00	15.00	14.00	13.50	22.00	14.00	14.00	13.50	15.50
Cement plastering	1,800 sq. yds.	.05	.10	.15	.40	.50	.30	.50	.40	.50	.65	.50	.30	.35	.50	.50	.70	.30
Steel beams and fittings	15 tons	70.00	59.67	50.00	70.00	60.00	60.00	80.00	50.00	80.00	75.00	60.00	60.00	40.00	90.00	45.00	60.00	100.00

SEWERS.—Boston, Mass.—The following bids were received by the metropolitan sewerage commission June 27 for constructing sections 23, 24 and 25, Neponset Valley intercepting sewer, as advertised in Engineering News; only total bids for sections 23 and 25 are given in table:

Bids for Section 24, Metropolitan Sewerage System, Boston, Mass.

Bidder.	Excav. and refill, sewer 48x49 ins., 80 lin. ft.	Excav. and refill, sewer 45x46 ins., 2,390 lin. ft.	Rock excavtion, 5,740 cu. yds.	Brick masonry Am., 425 cu. yds.	Brick masonry, Port., 200 cu. yds.	Concrete masonry, Am., 300 cu. yds.	Concrete masonry, Port., 150 cu. yds.	Spruce lumber, 10 M. ft. B. M.	Total.	Total, Sec. 23.	Total, Sec. 25.
Michael Sullivan, Cincinnati	$8.00	$7.75	$6.50	$15.00	$16.00	$8.00	$9.00	$35.00	$70,195	$62,934	$47,472
J. P. O'Connell, Dorchester	8.00	8.00	5.00	14.00	16.00	6.00	8.00	30.00	60,958	56,531	31,580
H. P. Nawn, Boston	7.50	7.50	5.00	13.00	16.00	6.00	7.50	35.00	59,273	53,732	.....
S. W. Frescoln, Reading, Pa.	7.40	7.40	4.50	12.50	14.00	5.90	6.90	20.00	55,267	47,603	.....
Craib & Trumbull, Winthrop	5.00	5.00	4.00	13.00	15.00	6.00	7.00	30.00	47,030	.....	36,190
E. W. Everson, Providence	5.00	5.00	4.00	11.50	13.50	5.00	6.00	25.00	45,588	41,901	30,115
Haskin & Murphy, Charleston	3.00	3.00	3.60	12.50	14.00	5.50	6.90	20.00	39,113	34,556	.....
R. A. Malone & Son, Boston	3.25	2.75	3.50	12.00	13.50	5.00	7.00	30.00	37,613	45,358	39,043

SEWER AND DRAIN.—Somerville, Mass.—Ernest W. Bailey, Cy. Engr., informs us that the contract for constructing a storm water drain and pipe sewer, in the Tannery Brook district, as advertised in Engineering News, was awarded to the A. W. Bryne Construction Co., June 26; bids as follows:

Bids for Constructing Storm Water Drain and Sewer, at Somerville, Mass., June 9, 1896.

Quantities.		T. F. Crimmings & D. C. Collins,[1] $20,440.	A. W. Bryne Cons't'n Co., Medford, $22,455.	D. F. O'Connell, Boston, $27,767.	J. P. O'Connell, Dorchester, $28,020.	Rich'd Falvey, Somerville, $29,180.	H. A. Hanscom & Co., W. Medford, $29,667.	Craib & Trumbull, Winthrop, $29,863.	Frank L. Allen, Worcester, $33,700.	John J. Dorey, Somerville, $33,786.	C. A. Mongan, Somerville, $45,675.
Excavat'n, 7 × 4 ft. drain and p. sewer	1,000 lin. ft.	$2.20	$1.50	$2.45	$2.00	$2.50	$3.00	$1.20	$2.25	$4.00	$3.25
For 5 × 4 ft. drain and pipe sewer	700 " "	2.40	1.50	3.03	2.80	3.25	3.00	1.20	4.00	4.33	3.25
For 4½ × 4 ft. drain and pipe sewer	1,300 " "	2.00	1.50	4.80	4.50	3.50	3.50	5.00	6.50	5.00	4.25
6, 8, 10 and 12-in. pipe sewer	4,000 " "	.10	.50	.17	.15	.30	.15	.30	.15	.12	4.25
5 to 8-in. underdrain	2,700 " "	.15	.15	.12	.20	.15	.15	.15	.50	.25	.25
American cement concrete	1,000 cu. yds.	3.70	4.50	4.50	5.10	5.60	5.75	6.00	6.00	6.00	5.00
Portland cement concrete	100 " "	5.00	6.00	6.00	6.00	7.75	6.82	8.00	9.00	7.00	6.00
Brick masonry	350 " "	10.50	11.00	14.25	13.00	13.50	13.00	15.00	12.00	15.00	12.00
Rubble stone masonry	1,100 " "	4.05	4.50	4.25	5.00	5.00	5.50	5.50	5.00	5.00	5.00
Portland cement lining	3,300 sq. yds.	.25	.50	.30	.40	.50	.60	.50	.50	.50	.50

[1]Somerville.

PAVING.—Pittsburg, Pa.—The Sicilian Asphalt Paving Co. has been awarded several contracts at $1.97 and $1.98 a sq. yd., for paving with asphalt; 30 to 35 cts. a cu. yd. for excavation; 45 to 50 cts. a lin. ft. for new curb; 15 to 18 cts. for curb redressed; Pennsylvania Asphalt Paving Co., several contracts at $2, 41 to 56 cts. for excavation, 49 cts. for new curb, and 17½ cts. for curb redressed; Booth & Flinn Co., Ltd., 8,400 sq. yds. Ligonier blocks, at $1.44, and 3,000 sq. yds. at $1.42; Joseph Hastings, 380 sq. yds vitrified brick, at $1.28; Harvey Sloan, 1,500 sq. yds. granite block paving, at $2.20.

SEWERS.—Ukiah, Cal.—W. E. Deering, Cy. Clk., has sent us the following statement of the bids received June 15 for constructing a sewer system:

Bids for Constructing Sewer System, Ukiah, Cal.

Bidder.	6-in. pipe, 28,600 ft.	8-in. pipe, 10,254 ft.	12-in. pipe, 6,000 ft.	Lampholes, 115.	Flushtanks, 18.	Manholes, 5.	6-in. Y's, 500.	8-in. Y's, 150.	Handholes, 140.	Settl'g vats, 4.	Total.
C. D. Vincent, Oakland	$0.32½	$0.39	$0.514	$6.00	$35.00	$30.00	$0.72	$0.96	$0.38	$47.00	$18,886
William Beiser & Co., Oakland	.31	.35	.45	6.88	56.98	6.88	.38	.38	.54	40.25	17,403
White & Osborne, Sacramento	.48	.54	.75	12.00	90.00	44.00	.65	.62½	.53½	45.00	27,598
William Heafey, Oakland	.31	.32	.50	4.00	65.00	54.00	.70	.90	.10	100.00	17,640
J. W. Swank, Santa Rosa	...	...	...	.....	.....	.....	...	...	...	.....	*19,600
W. J. Schmidt, Berkeley	.35	.45	.65	5.00	50.00	25.00	.35	.35	1.00	35.00	20,274
Blain R. Smith, Portland, Ore.	.30	.34	.55	8.00	60.00	30.00	.18	.25	.20	40.00	17,745
John Kelso, Oakland	.33	.40	.60	10.00	60.00	30.00	.36	.44	.40	50.00	20,014
Ed. Cavanagh, Oakland	.37½	.43½	.64½	8.56	75.00	35.00	.36	.48	.60	25.00	21,991
J. J. Dunn & D. McMahon, Berkeley	.32	.39	.62	9.00	75.00	35.00	.36	.48	.44	45.00	19,914
P. H. McEvoy, San Mateo	...	...	...	.....	.....	.....	...	...	...	.....	*18,876
F. Bruner & Son, Ukiah (awd. contr.)	...	...	...	.....	.....	.....	...	...	...	.....	*16,900
J. H. Barker, Ukiah	...	...	...	.....	.....	.....	...	...	...	.....	*16,900

*Lump bid.

BRICK PAVING.—Erie, Pa.—The bidders June 22 for brick paving were Sullivan & Adams, Allegheny, V. D. Eichenlaub, Erie, and Mayer Bros., Erie, bids ranging from $1.64 to $2 a sq. yd. Geo. Platt, Cy. Engr.

ASPHALT PAVING.—Jersey City, N. J.—The only bid received for the improvement of Gifford place, etc., was that of the Barber Asphalt Paving Co., as follows: Earth excavation, 1 ct. a cu. yd.; asphalt paving, $2.48 a sq. yd.; new curb stone, 55 cts. a lin. ft.; Belgian repaving, 25 cts. a sq. yd.; curb reset, 1 ct. a lin. ft.; manhole heads brought to grade, $1 each. W. W. Ruggles, Ch. Engr.; Geo. T. Bouton, Clk. Comrs.

ASPHALT BLOCK PAVING.—Troy, N. Y.—The following bids were received June 23 for paving in King St. with asphalt blocks: T. H. Karr, $3.38 a sq. yd.; Hastings Pavement Co., $3.99.

MISCELLANEOUS CONTRACTS.

STEAM FOG SIGNAL.—Cleveland, O.—Bids are asked until July 15 for the construction and erection of a duplicate steam fog signal apparatus for Tibbetts Point Light Station, near Cape Vincent, N. Y., as stated in our advertising columns. Lieut.-Col. Jared A. Smith, U. S. Engrs.

CABLE COAL RAILWAY.—West Point, N. Y.—Bids are asked until July 20 for constructing a cable coal railway. Capt. J. B. Bellinger, A. Q. M., West Point.

GAS PLANT.—South Framingham, Mass.—Thos. R. Doran is reported as canvassing this place in the interest of the Framingham Gas, Fuel & Power Co.

CEMENT, SAND AND PEBBLES.—Washington, D. C.—Bids are asked by the district commissioners until July 6 for furnishing sand and pebbles and until July 18 for cement, as stated in our advertising columns.

WHARF.—Florence, Ore.—It is reported that Meyer & Kyle are about to build a new wharf.

STEAM ROAD ROLLER.—Laconia, N. H.—The council proposes to purchase a new steam roller.

GAS PLANT.—Oneida, N. Y.—The Oneida Gas Co. has decided to build new works to cost about $30,000.

DRY DOCK, Tacoma, Wash.—J. M. Dougan, T. A. Bringham and J. P. Cowen, of Tacoma, are reported to have been awarded the contract to build a dry dock at Higgins' Beach and to furnish the pumping plant at a cost of $86,000. The plant complete will cost $125,000, as the wharves, excavating the entrance to the dry dock, etc., are not included in the contract. The dock is to be 425 ft. long in the clear on the keel blocks, 90 ft. wide at the top and 50 ft. wide at the bottom. It will be 21 ft. deep and 30,000 cu. yds. of earth will be excavated in preparing the site. Capt. J. E. Higgins and O. J. H. Swift are interested in the project.

TELEPHONE LINES.—A new telephone company was organized at Kittanning, Pa., and over 100 subscribers secured last week. Pres., John G. Ayres, East End, Pittsburg.——About 300 subscribers were obtained last week for a new telephone system at New Brighton, Pa.——Dr. D. W. C. Benbow, of Greensboro, N. C., and associates, will build a telephone line between Elkin and Roaring Gap, N. C., a distance of over 20 miles, at an early day.——A long distance telephone is to be established in South Carolina by the Georgetown & South Island Telephone Co., which secured its right of way last week. A line to Pawley's Island and the Waverly Mills will also be built. Address the company at Georgetown, S. C.

BREAKWATER WORK.—Tompkinsville, N. Y.—The following bids were received by Lieut.-Col. Wm. Ludlow, U. S. Light House Engr., June 20, for building temporary breakwater in the entrance to basin, sheet-piling the south face of the south wharf, painting portions of the wharves and furnishing and delivering steel I-beams, as advertised in Engineering News of June 18:

Bidder.	Breakwater.	Piling.	Painting. $550
Wm. R. Woelfle, Stapleton, N. Y.	.....	.....	.....
Spearin & Preston, Bayonne, N. J.	$825	$4,750	....
Conklin & Jones, New York, N. Y.	829	5,270	527
T. & A. Walsh, New York, N. Y.	850	5,300	....
Barth S. Cronin, Brooklyn, N. Y.	970	5,000	....
Colin McLean, New York, N. Y.	999	5,650	450
R. P. & J. H. Staats, New York, N. Y.	1,075	5,325	....
J. & F. Kelley, Brooklyn, N. Y.	1,087	5,800	....
Jacob Hansen, Perth Amboy, N. J.	1,150	5,700	....
W. H. Flaherty, New York, N. Y.	1,200	8,000	....
J. M. Briggs, New York, N. Y.	1,294	5,597	....
John L. Grim, Philadelphia, Pa.	1,334	....	800
Mulligan & Brazo, New Brighton, N. Y.	....	....	485
Wm. Schuld, New Brighton, N. Y.	....	....	890
E. Rinehart & Son, New York, N. Y.	....	....	675
F. W. Schults, Tompkinsville, N. Y.	....	....	480
Chas. Smedley	....	....	937
Pierson & Co., 20 Broadway, N. Y.	....	....	293
			Steel beams.
Passaic Rolling Mill Co., Paterson, N.J.	....	....	322
Phoenix Iron Co., Philadelphia, Pa.	....	....	325
Manhattan Supply Co., New York, N.Y.	....	....	367
John P. McGuire, Cleveland, O.	....	....	330
Carnegie Steel Co., Limited, New York.	....	....	337

CONTRACT PRICES.

BRICK PAVING.—Marietta, O.—The contract for 34,315 sq. yds. of paving, 13,893 ft. of curbing, etc., as advertised in Engineering News, has been awarded to W. J. Berry, at 65 cts. a sq. yd. of finished pavement with A. O. Jones' brick, and 33 cts. a lin. ft. for Berea curbing; about 25 different kinds of brick and 10 different kinds of

curbing were submitted; bids for A. O. Jones' brick and Berea curb were as follows; Carl Becker, Cy. Clk.:

	Paving.	Curbing.
H. A. Hill, Marion, O.	$0.80	$0.34
Henkel & Sullivan, Cincinnati, O.	.93	.30
H. T. Day, Bellaire, O.	.75	.33½
John Wilking, Marietta, O.	.73½	.34½
Ashman & Schmalz, Cincinnati, O.	.84	.41
T. B. Townsend Co, Zanesville, O.	.67½	.30
McNaughten & Harper, Granville, O.	..	.31
C. Rosser, Bellaire, O.	..	.31
Henry Gantz, Columbus, O.	.81	.32
W. J. Berry, Bellaire, O.	.65	.33

STONE PAVING.—Scranton, Pa.—The following bids were received June 25 for curbing and for paving Ninth Ave., Robinson and Jackson Streets, from West Lackawanna Ave., to Main Ave., with stone block pavement on a sand foundation; Joseph P. Phillips, Cy. Engr.:

Bidder.	Paving.	Curb.	Circular curb.	Curb reset.
Peter F. Mulligan	$1.79	$.49	$.74	$.14
J. J. Fahey	1.90	.45	1.00	.15
Nicholas & Co.	1.74	.54	.89½	.24
Fox & Ruddy	1.73	.45	.75	.12
Redington Construction Co.	1.84	.43	—	.11
[1]Hart & Gibbons	1.77	.45	.85	.07

[1]Wilkesbarre, Pa., all others Scranton.

SEWERS.—Springfield, Mass.—The total bids received June 10 for constructing 1,970 ft. of brick sewer with pipe outlet into Connecticut River, as advertised in Engineering News, were published last week, contracts being awarded to McKenzie & Peterson, Springfield, at $12,587, and Acock & Son, Trenton, N. J., at $3,973. The itemized bids were as follows; Chas. M. Slocum, Cy. Engr.:

Bids Received at Springfield, Mass., June 10, for Constructing Sewers.

Quantities.		W. D. McKenzie & C. O. Peterson.	Frank L. Allen.	Curtis & Falvey.	Acock & Son.	J. R. Driscoll & Michael Curtis.	S. W. Frescoln.	G. M. Atkins.	Frederick E. Shaw.	D. W. Mellen.	Fred T. Ley & Co.
Section 1, Elm St.:											
Earth excavation:											
Brick sewer, 3 ft. 9 ins.	1,154 cu. yds.	$0.73	$0.60	$4.00	$0.80	$0.70	$1.39	$0.80	$1.00	$0.75	.....
Sewer 3 ft 8 ins.x5 ft. 6 ins.	4,753 " "	.83	.90	.75	.70	.70	1.39	1.10	1.40	.75	.....
Brick mas., Port. cem. mort.	65 " "	10.25	15.00	10.00	14.00	9.70	13.25	14.00	12.50	10.60	.....
American cement mortar	510 " "	8.75	12.00	8.00	12.50	8.40	11.50	12.00	11.50	9.70	.....
Concrete mas., Port. cem. m.	79 " "	7.50	8.00	9.00	7.50	9.50	6.90	7.00	8.50	10.00	.....
24-in. c. i. outlet pipe, etc.	24 lin. ft.	14.00	12.00	5.00	10.00	13.50	15.00	8.00	8.00	12.00	.....
24-in. cypress wood outlet p.	190 " "	8.90	17.00	5.00	7.50	13.50	15.00	8.00	8.00	12.00	.....
Rubble paving, grouted	26 sq. yds.	2.00	2.50	4.00	2.00	2.00	2.00	2.00	4.00	4.00	.....
Total		$12,587	$16,279	$14,795	$13,844	$12,740	$18,743	$15,497	$16,972	$13,527	.....
Section 2, Sanford St.:											
Earth excavation:											
Brick swr 3ft.2ins.x4ft.9ins.	1,766 cu. yds.	.....	$1.00	$1.25	$0.75	.....	$1.39	$2.00	$1.70	$1.25	$2.75
Brick mas., Port. cem. mort.	32 " "	.....	16.00	10.00	14.00	.....	13.25	14.00	14.00	10.60	10.50
American cement mortar	176 " "	.....	13.00	9.00	12.50	.....	11.50	12.00	12.50	9.70	9.25
Total		.....	$4,566	$4,112	$3,973	.....	$4,903	$6,092	$5,650	$4,254	$6,821

INDUSTRIAL NOTES.

THE CLONBROCK STEAM BOILER CO., Brooklyn, N. Y., reports that it is very busy at the present time with all the orders it can fill, having received a large number within the past few weeks.

THE LAWRENCE CEMENT CO., New York city, has just received a handsome bronze medal testifying to the general excellence of its Hoffman Rosendale cement exhibited at the Columbian Exposition in Chicago. A diploma also accompanies the award.

THE BERLIN IRON BRIDGE CO., East Berlin, Conn., reports that the Seymour Mfg. Co., of Seymour, Conn., is enlarging its boiler house, and the new portion of the building will be constructed entirely of steel, in order to make it absolutely fireproof. The contract for the steel work has been let to the Berlin company.

L. K. HIRSCH, 549, The Rookery, Chicago, has recently sold and delivered at Shawnee, Okla., all rails, cars and locomotives necessary for the equipment of the St. Louis, Oklahoma & Texarkana R. R. Mr. Hirsch makes a specialty of equipping railway lines with second-hand rolling stock, as well as with relaying rails, and carries a large stock of both in his shops and storage yard at Chicago Heights.

THE EDGE MOOR BRIDGE WORKS, Wilmington, Del., has received orders from the Baltimore & Ohio Ry. for three bridges: Bridge 61, 2d division, over south branch of the Potomac River, three spans, double track, triangular truss, 129 ft. each; bridge 77, 2d division, over Potomac River, two spans, double track through trusses 160 ft. 6 ins. each; bridge 88, 3d division, over Big Yough River, two spans deck riveted truss, double track, 39 ft. each.

THE PENCOYD IRON WORKS, Philadelphia, is at work on the following contracts for the Baltimore & Ohio Ry.: Bridge 12, C. O. division, consisting of four spans, about 128 ft. 6 ins. each, single track through truss, over Muskingum River; bridge 45, midland division, deck truss, one span, single track, 100 ft.; bridge 48, midland division, deck riveted truss, single track, one span, 100 ft.; bridge 23, 5th division, one span, single track, deck plate girder, 54 ft.

THE BLACKMER & POST PIPE CO., Equitable Bldg., St. Louis, Mo., writes us that it has recent orders from the city of Cedar Rapids, Iowa, for 2,700 ft. of 30-in. sewer pipe, and for 3,200 ft. of the same size for use by the city of Waterloo, Iowa. The company is negotiating with others, which will require in the aggregate many thousand feet of 30-in. and 36-in. pipe. It thinks that the time is close at hand when large sizes of vitrified pipe will be used almost exclusively in place of brick sewers of about the same capacity.

BEATTY & SONS, Welland, Ont., have just been awarded a contract for supplying a complete gold-dredging plant, to cost about $20,000. Dredge hull, scows, grizzlies, sluice boxes, etc., will be built on the Fraser River. The plant will be of the most modern style, supplied with Beatty's latest improvements. All will be ready for business about Oct. 1, when active operations will be begun under the superintendence of L. R. Symmes. This machinery is for the Beatty Gold Dredging & Mining Co., recently incorporated with a capital stock of $50,000. The incorporators are: McSloy Bros., St. Catharines, Ont.; H. C. Symmes, Banker R. Paine, and Chas. F. Morse, of Niagara Falls South, Ont.; A. B. Denison, of Niagara Falls, N. Y.; Hugh McCullough, Galt., Ont.; Senator Ferguson, Toronto, Ont.; and Beatty & Sons, of Welland.

NEW COMPANIES.—Hamilton-Rigney Co., Brooklyn, N. Y.; to manufacture wire and novelties; $10,000; Fred G. Hamilton, Edward J. Rigney, Walter G. Lilley, Brooklyn.

Amphion Cycle Mfg. Co., Brooklyn, N. Y.; $50,000; James E. Power, Clinton H. Hendrickson, Barbara Kirchner.

Improvement Construction Co., New York city; to construct railways, telegraph and telephone lines; $150,000; commencing with $50; J. C. Stanton, D. N. Stanton, W. S. Halliburton, New York city.

The St. Lawrence & Adirondack Equipment Co., New York city; to manufacture and lease railway equipment; $225,000; John H. Prall, Frank W. Speir, Henry L. Sprague.

Flood Brick & Tile Co., Stuttgart, Ark.; $15,000; Henry A. Flood, John R. Flood, Catharine Flood.

Mexico Exploration Co., New York city; to construct railways and barges, boats, etc.; $5,000,000; commencing with $100; D. N. Maxon, D. A. Davies, Earnest Hopkinson, Brooklyn, N. Y.

The Inter Lock Brick Co., Philadelphia, Pa.; to manufacture machinery; $500,000, commencing with $105; Philip F. Nash, Geo. Davis, Geo. W. Lockrey.

Loomis-Manning Filter Co., Philadelphia, Pa.; to manufacture filters; $500,000; commencing with $50; S. T. Manning, John Spring, Jr., Paul M. Burnett, Baltimore, Md.

Portland Cement Co. of Utah., San Francisco, Cal; $40,000; commencing with $500; E. R. Lilienthal, J. W. Lilienthal, Robt. McF. Doble, San Francisco, Cal.

Chivato Mining & Milling Co., San Francisco, Cal.; $1,000,000; all paid in; Wm. J. Sutherland, Edward S. Spring, Walter G. Holmes.

Bunker Hill Mining, Milling & Power Co., San Francisco, Cal.; $500,000; commencing with $375,000; G. W. Osborn, Thos. W. Carroll, E. W. Burke.

Marcus Mason Mfg. Co., New York city; to manufacture machinery and tools; $10,000; Marcus Mason, Edward O. Schernikow, New York city; William H. Wiggin, Worcester, Mass.

Jefferson & Clearfield Coal & Iron Co., Reynoldsville, Pa.; $1,000,000; commencing with $100,000; James M. Pratt, Treas., 65 Cedar St., New York city.

Eureka Lock & Improvement Co., Pittsburg, Pa.; to manufacture iron and steel; $2,000; James B. Mead, Treas., Homestead, Pa.

Carnegie Telephone Co., Carnegie, Pa.; $10,000; Findlay R. McGraw, Chas. A. Willis, Earnest Gawthrop.

New York Telephone Co., New York city; $16,000,000; Geo. J. Gould, Lakewood, N. J.; J. J. Cahill, J. P. Davis and others, of New York city.

Deep Notch Telephone Co., Kingston, N. Y.; $500; Frank M. Smith, Brooklyn; Charles Tappen, Frank A. Palen, Kingston, N. Y.

Waterbury Lumber Co., Brooklyn, N. Y.; $10,000; A. M. McClain, E. B. McClain, of Ridgeway Pa.; E. P. Waterbury, Brooklyn, N. Y.

Cincinnati Metal Wheel Co., Cincinnati, O.; $5,000; R. D. Werd, Geo. C. Renner, W. F. Goodnough.

F. H. Benners Co., New York city; to manufacture and sell grease, oils and lubricants; $20,000; Edwin H. Benners, Elizabethport, N. J.; James L. Hewlett, George B. Hewlett, New York city.

Germantown Oil Co., Pittsburg, Pa.; $2,000; Wm. R. Smith, H. D. Rolfe, Wm. H. Dodd.

Raritan Construction Co., Trenton, N. J.; $50,000, commencing with $10,000; Geo. I. Gandy, Saml B. Vrooman, John W. Chestnut, Philadelphia, Pa.

The Knickerbocker Construction Co., Jersey City, N. J.; $100,000, commencing with $1,000; Henry D. Parker, 197 Broadway, New York city; Jos. M. Currie, Bayonne, N. J.; Edgar Reed, 61 Broadway, New York city.

Belleville & Smithton Plank Road Co., Belleville, Ill.; $23,600; Fred I. Krafft, A. Karr, Theodore Karr.

Hanford Oil & Development Co., Hanford, Kings Co., Cal.; $120,000; commencing with $80,400; E. E. Manheim, S. Shannon, J. Manasse, Hanford, Cal.

C. H. Haeseler Co., Philadelphia, Pa.; to manufacture iron and stone tools and machinery; $12,000, commencing with $1,200; Abraham L. Phillips, Philadelphia.

Ticonderoga Stone Crusher Co., Ticonderoga, N. Y.; $2,000; A. H. Weed, James Maloney, C. A. Stevens.

Ardell Oil Co., Burnett, Allegheny county, Pa.; $10,000, commencing with $1,000; E. W. Davis, Pittsburg, Pa.

ADVERTISEMENTS BY TELEGRAPH.

Many proposal advertisements and news items stating that bids are being asked are received by us too late for publication the week intended. The last pages of Engineering News go to press on Wednesday afternoon, and the entire edition is mailed on Thursday. Send us all the advertisements and news items that you can as early in the week as possible.

If unable to reach us by mail by Wednesday noon, with an advertisement that should be inserted the same week, telegraph it to us "Collect," sending a night message if possible. After wiring, send the order for insertion and a duplicate copy of the advertisement by mail, to avoid any possible mistake.

LAKE TUNNELS.

CLEVELAND, O., June 30, 1896.

Sealed proposals will be received at the office of the Board of Control, No. 105 City Hall, until 12 o'clock m., July 31, 1896, for furnishing the material for and building a brick tunnel nine (9) ft. internal diameter under Lake Erie, from a point on the Lake Shore, between Coe St. and Kirtland St., in a westerly direction to an inlet protection crib, located about 26,000 ft. distant and about four (4) miles from shore.

There will be four (4) shafts connected with the building of this tunnel: One shore shaft from 10 to 10½ ft. inside diameter and about 112 ft. deep; Two temporary shafts, each 8 ft. in diameter in the clear and about 118 feet deep one inlet shaft 10 ft in diameter in the clear and about 122 ft. deep.

Sealed proposals will also be received for furnishing the material for and building a brick tunnel 8½ ft. internal diameter to extend from our present intake crib in a northwesterly direction a distance of about 15,000 ft.

There will be two shafts connected with this tunnel; one temporary shaft 8 ft. in diameter in the clear and about 111 ft. deep, and one inlet shaft 10 ft. diameter in the clear and about 122 ft. deep.

Plans and specifications may be seen and blank proposals can be obtained at the office of the Superintendent of Water-works, after July 12, 1896.

Each proposal must contain the full name of the party or parties making the same, and all parties interested therein, and each bidder must deposit with his bid or bids a certified check for thirty-five thousand ($35,000.00) dollars, on a solvent bank in the city, as surety that if his proposal, or either of his proposals, shall be accepted, he will enter into contract and will properly secure the performance thereof; such check to be surety for the bid or bids that may be accepted.

The city proposes to build but one of said tunnels, and will determine, after receipt of bids for both, which, if either, will be built.

No proposals will be entertained unless made on the blanks furnished by the Superintendent of Water Works and delivered at the office of the Board of Control, No. 105 City Hall, previous to 12 o'clock m. on the day specified.

The city reserves the right to reject any or all bids.

D. E. WRIGHT,
27-4t Director of Public Works.

CUT STONE.

Proposals for the cut stone to be used in the Assabet River Bridge, Section 8, Nashua Aqueduct, are now being received. Address
JONES, POLLARD & CO.,
27-1t Northboro, Mass.

INTERCEPTING SEWER.

PORTLAND, MAINE.

Sealed proposals for constructing about 2,600 feet of the North Side Intercepting Sewer will be received at the office of the Commissioner of Public Works, City Hall, Portland, Maine, until Wednesday, the 15th day of July, 1896, at 12 o'clock m., when they will be publicly opened and read. The successful bidder will be required to give a bond in a sum and with sureties satisfactory to the Commissioner of Public Works to ensure the proper fulfilment of the conditions of the contract. Each bid must be accompanied by a properly certified check in the sum of One Thousand Dollars, payable to the order of the City Treasurer. Blanks on which proposals must be made, plans, specifications and further information can be obtained at the office of the said Commissioner, who reserves the right to reject any or all bids should he deem it for the interest of the City so to do. Bids should be marked "Proposals for Sewer" and addressed to

GEO. N. FERNALD,
Commissioner of Public Works,
27-2t Portland, Maine.

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